



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

CREATE CHANGE

Child Health Research Centre Annual Report 2023







Acknowledgement of Country

The Child Health Research Centre acknowledges the Traditional Owners and their custodianship of the lands on which UQ operates. We pay our respects to their Ancestors and their descendants, who continue cultural and spiritual connections to Country. We recognise their valuable contributions to Australian and global society.

A Guidance Through Time, 2019

**Digital reproduction of original synthetic polymer paint
on canvas**

Commissioned by The University of Queensland (UQ) to represent reconciliation at UQ, 2018. Original artwork located at Level 5, Brian Wilson Chancellery, St Lucia campus, Australia.



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Message from the Executive Dean, Faculty of Medicine

Professor Geoff McColl, MBBS, BMedSc, MEd, PhD, FRACP

As I review the considerable successes of the Child Health Research Centre over 2023, I am reminded that the health and wellbeing of all, but particularly of children and adolescents, requires researchers and clinicians from many disciplines working collaboratively. The Child Health Research Centre manages to bring together an ensemble of experts across varied disciplines that strive for research excellence. In this way, they have achieved great outcomes for children and their families in Queensland and beyond. The Child Health Research Centre really is an exemplar of what the University as a whole aspires to – being a “University *for* Queensland”.

As we prepare for the establishment of a new faculty, the Faculty of Health, Medicine and Behavioural Sciences, from the merger of the existing Faculty of Medicine and the Faculty of Health and Behaviour Sciences in 2025, I am heartened by the lead the Child Health Research Centre has taken in the trans-disciplinary approaches that bring together researchers from the Faculty of Medicine and beyond to address complex health and wellbeing problems.

In just the last two years, the Centre has greatly expanded and seen an increase in productivity and outcomes by all measures. In 2023, the Centre also renewed its strategic outlook with CHRC Strategy 2023-2028 which further commits the Centre to pursuing interdisciplinary research and translation, and partnering with Children’s Health Queensland, Children’s Hospital Foundation and other key organisations to achieve better health and wellbeing outcomes for children.

I congratulate Professor Craig Munns and all of the staff the Child Health Research Centre, and I am confident of the continued growth and success of the Centre.

I commend to you the Child Health Research Centre’s work in 2023 in this report.

Professor Geoff McColl

Executive Dean, Faculty of Medicine



Director's Report

Professor Craig Munns, MBBS, PhD, FRACP



The Child Health Research Centre (CHRC) brings together a constellation of interdisciplinary researchers to improve the health and wellbeing for all children, youth and their families. CHRC is located in the purpose-built Centre for Children's Health Research on the campus of the Queensland Children's Hospital. Since its inception in 2015, CHRC has grown to include 15 research groups spanning the full spectrum of children's health and wellbeing, including social and environmental determinants, respiratory and sleep disorders, cerebral palsy, rehabilitation, musculoskeletal health, allergy, immunology, mental health, neurodevelopment, patient safety, paediatric intensive care and physical activity.

"I am pleased to present this annual report that celebrates the successes achieved by CHRC in 2023 and highlights the growing impact CHRC is having on helping children, youth and their families thrive."

In 2023, CHRC attracted more than \$15 million in competitive grant funding and published 328 journal articles, books and book chapters. As you read through this report, it will be apparent that the impact CHRC has goes beyond academic outputs, with CHRC researchers translating findings into clinical practice, conducting outreach activities, having a bearing on policy, and making numerous appearances in the news media.

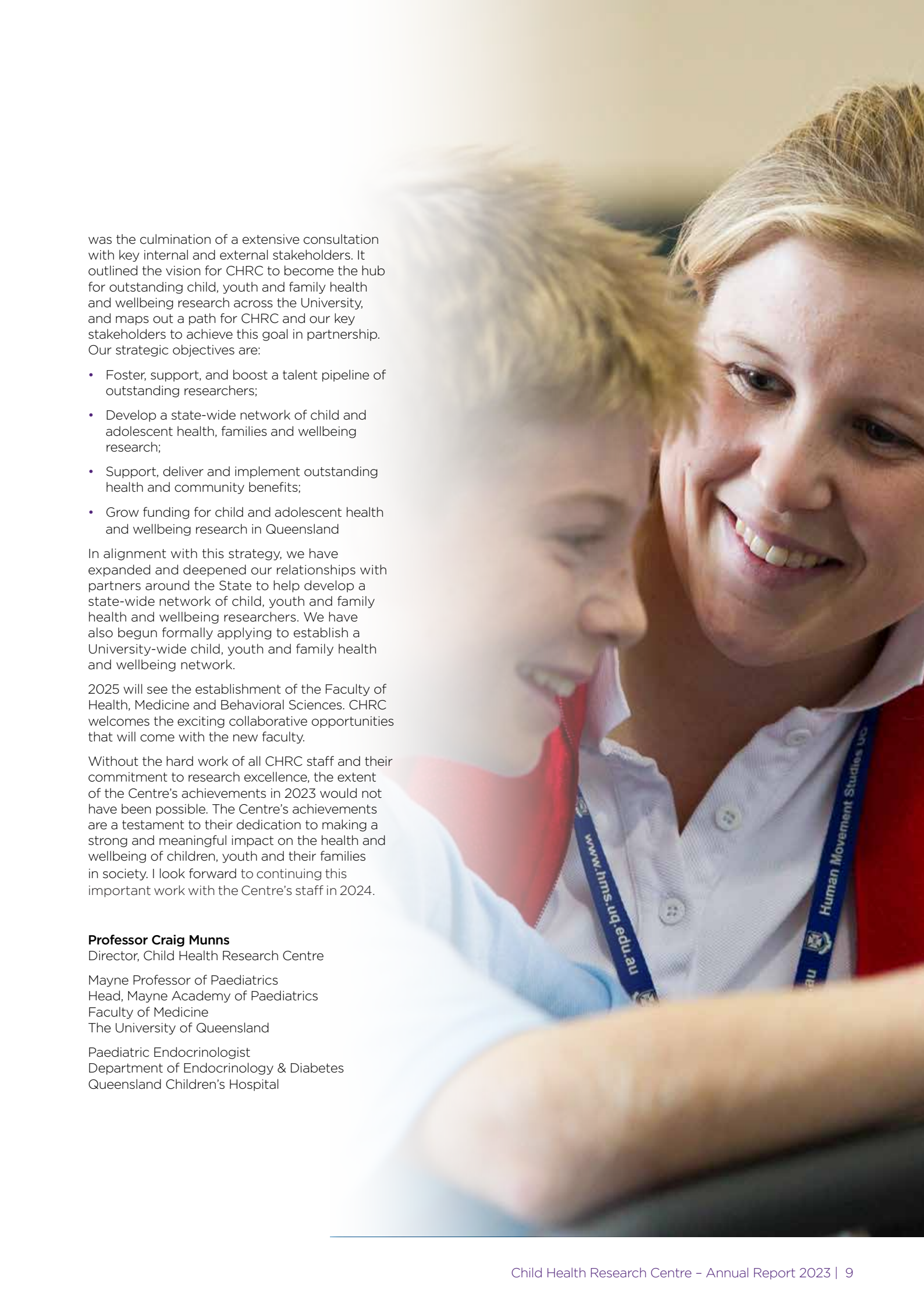
CHRC partners with Children's Health Queensland Hospital and Health Service, Children's Hospital Foundation, community health services, Health and Wellbeing Queensland, Non-Government Organisations and industry partners to achieve these successes. More than \$3 million received from Children's Hospital Foundation has enabled the research and translation into clinical practice that has made a profound impact on the lives of children and their families.

In 2023, numerous individual CHRC researchers were recognised for their accomplishments. These include, Associate Professor Kristen Gibbons received the 2023 Faculty of Medicine Leader of the Future (Academic) Award; Professor Di Yu received the Jacques Miller Medal from the Australian Academy of Science; Dr Kath Benfer was awarded the Mac Keith Press Promising Career Award by the American Academy for Cerebral Palsy and Developmental Medicine; Dr Emma Cooke received the Life Course Centre Capacity Building Award, Early Career Researcher; Dr Gaela Kilgour received Life membership of Physiotherapy New Zealand for contribution to physiotherapy in Aotearoa/ New Zealand; Dr Natasha Reid received the UQ Faculty of Medicine Spirit of Reconciliation award; Dr Karissa Ludwig received the Emerging Investigator Award from the Australia and New Zealand Society for Paediatric Endocrinology and Diabetes; Professor James Scott was a Highly Cited Researched 2023 (Clarivate); and Professor Amanda Ullman received the Most Outstanding Patient Innovation award from the Australian Hospital Association.

CHRC has launched many important initiatives in 2023. I am particularly proud of our work in partnering with health organisations, such as Gidgee Healing and Danila Dilba Health Service, to improve the health and wellbeing of children and youth in rural and remote communities. We also partnered with Lenakel Hospital and Tafea Health Care Association in Vanuatu to establish the first cerebral palsy register on Tanna Island, Vanuatu, and the Australia-first Endocrinology-Achondroplasia clinic was opened at Queensland Children's Hospital.

Our researchers have continued to organise and run an impressive array of workshops and training courses across Australia and internationally, including those on performing systematic reviews, conducting clinical trials, and the early detection and assessment of children with disabilities. The Clinician Researcher Development Program completed its second successful year of training new clinician researchers in the medical, nursing and allied health professions at Queensland Children's Hospital.

An important moment in 2023 for the Centre was the development of the 2023-2028 Strategic refresh. This



was the culmination of a extensive consultation with key internal and external stakeholders. It outlined the vision for CHRC to become the hub for outstanding child, youth and family health and wellbeing research across the University, and maps out a path for CHRC and our key stakeholders to achieve this goal in partnership. Our strategic objectives are:

- Foster, support, and boost a talent pipeline of outstanding researchers;
- Develop a state-wide network of child and adolescent health, families and wellbeing research;
- Support, deliver and implement outstanding health and community benefits;
- Grow funding for child and adolescent health and wellbeing research in Queensland

In alignment with this strategy, we have expanded and deepened our relationships with partners around the State to help develop a state-wide network of child, youth and family health and wellbeing researchers. We have also begun formally applying to establish a University-wide child, youth and family health and wellbeing network.

2025 will see the establishment of the Faculty of Health, Medicine and Behavioral Sciences. CHRC welcomes the exciting collaborative opportunities that will come with the new faculty.

Without the hard work of all CHRC staff and their commitment to research excellence, the extent of the Centre's achievements in 2023 would not have been possible. The Centre's achievements are a testament to their dedication to making a strong and meaningful impact on the health and wellbeing of children, youth and their families in society. I look forward to continuing this important work with the Centre's staff in 2024.

Professor Craig Munns

Director, Child Health Research Centre

Mayne Professor of Paediatrics
Head, Mayne Academy of Paediatrics
Faculty of Medicine
The University of Queensland

Paediatric Endocrinologist
Department of Endocrinology & Diabetes
Queensland Children's Hospital

Welcome to the Child Health Research Centre (CHRC)





CHRC brings together a constellation of researchers working for a happy and healthy life for all children, adolescents and families in Queensland and beyond. Through collaborative and interdisciplinary discovery, clinical, translational, public health and service delivery research, we provide the evidence to enable the best health and wellbeing for all children, adolescents and families.

Mission, Vision and Values

Our Vision

is to grow a constellation of inter-disciplinary researchers working for a happy and healthy life for all infants, children, adolescents and their families in Queensland and beyond.

Our Mission

is that through collaborative and interdisciplinary research, we provide the evidence to enable the best health and wellbeing for all children, adolescent and their families.

Our Values

We are collaborative, courageous and creative in all of our actions.

We strive for equity and are inclusive and respectful of the whole community.

About our Centre

Launched in 2015, the Child Health Research Centre (CHRC) is The University of Queensland's premier child and adolescent health and wellbeing research centre. CHRC brings together leading researchers to tackle global challenges in child and adolescent health. Our research aims to understand more about the health of children and adolescents, and the potential to prevent disease and disability before it even occurs.

With mounting evidence that long-term health is influenced by parental health during pre-conception and gestation and throughout a child's early years, investing research effort into children's health is critical. With our partners, we also develop novel treatments to improve health and wellbeing of children and adolescents across Queensland and beyond.

CHRC encompasses groups undertaking research across the full spectrum of children's health and wellbeing - from maternal and neonatal health, respiratory and sleep disorders, cerebral palsy and rehabilitation, musculoskeletal health, allergy, immunology, mental health and neurodevelopment. We also have a strong interest in the social and environmental determinants of health and wellbeing. Our groups work collaboratively within the centre, across UQ, and alongside industry, government, research and philanthropic partners, to understand the factors that ensure health in childhood and to prevent and treat disease and disability, including the impact of the first 2000 days on long-term health and wellbeing.

No matter what our individual research groups are focused on - our collective vision is the same: to give every child a happy and healthy life.

We want to solve the big questions to benefit our smallest people and give our children's children the best possible life.

2023 Snapshots



Research and funding

134

International collaborating institutions

16

Number of industry partners

> \$15M

Total external Research funding

\$794,000

Total philanthropy funds

14

Participants in the Clinician Researcher Development Program



Staff and students

129

Centre staff

19

Newly enrolled higher degree research students

10

Higher degree research student conferrals

51

Higher degree research students currently enrolled

25

Awards to Centre staff and students



Queensland
Government

Centre for C



Publications and presentations

316

Peer-reviewed
journal articles

9

Highly cited papers

12

Books and book
chapters

87

Invited conference
presentations and
panel participation

32

Published
conference abstracts



Impact

22

Clinical trials
being conducted

149

Policy document cites

29

News appearances,
interviews and briefing

23

Engagement
events

1979

News mentions

CHILDREN'S HEALTH RESEARCH



CHRC's Research Priorities and Themes



RESEARCH PRIORITY 1 Brain and Mind

Acquired Brain Injury in Children (ABiC)

Child and Youth Mental Health Research Group

Fetal Alcohol Spectrum Disorder Research Collaboration (FASD)

Queensland Cerebral Palsy Rehabilitation and Research Centre (QCPRRC)



RESEARCH PRIORITY 2 Population, Environment and Health

Applied Public Health Research Group

Childhood Allergy and Epidemiology

Children's Physical Activity Research Group (CPARG)

Children's Health and Environment Program (CHEP)

Kids Sleep Research

Queensland Cystic Fibrosis Research Program



RESEARCH PRIORITY 3 Personalised Prevention and Care

Children's Musculoskeletal, Endocrine and Diabetes Research Group (MED-Kids)

Ian Frazer Centre for Children's Immunotherapy Research (IFCCIR)

Computational Immunology

Children's Intensive Care Research Program (ChIRP)

Paediatric Nursing and Patient Safety

Research Priority 1

Brain and Mind

Acquired Brain Injury in Children (ABiC)

Lead Researcher: Professor Karen Barlow



The focus of the **Acquired Brain Injury in Children (ABiC)** group is on therapeutic and health care strategies to improve outcome after acquired brain injury of childhood and the neurobiological signatures of treatment response. Current studies include a) the investigation of the neurobiological signatures of poor outcome following mild TBI using connectivity

modelling and Transcranial Magnetic Stimulation, b) improving the treatment of TBI using non-invasive brain stimulation, and c) improving health care utilization after traumatic brain injury.

Key Projects:

- **Sleepy heads: Understanding the environmental influences on sleep and impact on outcome after acquired brain injury.** Quality sleep is important for our physical and mental health and wellbeing. Creating the right environment for sleep can support recovery within the rehabilitation wards. This study identifies and measures the various environmental influences, such as light and sound, that can cause sleep disturbance. The findings from this research will provide recommendations for the wards in collaboration with the Queensland Children's Hospital.
- **Autism-TMS: RCT of repetitive transcranial magnetic stimulation to improve social communication in people with autism: a multicentre trial.** Social communication, both verbal and non-verbal, is particularly challenging for people on the autism spectrum and can lead to anxiety and depression. Non-invasive brain stimulation (NIBS) is being investigated as a treatment to improve social communication. This placebo-controlled, randomised clinical trial delivers 20 transcranial magnetic stimulation (TMS) sessions over a period of 4 weeks, measuring changes in social communication, social cognition, and quality of life. This study plans to recruit 120 ASD participants aged 14-40 at five study centres across Australia. UQ ABiC represents QLD and successfully enrolled the very first study participant for this trial.
- **A RCT of non-invasive brain stimulation to improve attention in children with brain injury.** Attention is an essential component of memory and learning but is often impaired in children following an acquired brain injury (ABI). Transcranial direct current stimulation (tDCS) is a type of NIBS which can be used to either facilitate or inhibit neuronal activity. Phase A of this research study delivered single sessions of active or sham tDCS in ABI patients and healthy controls, measuring improvement in attentional inhibition via computer-based tasks. In phase B, ABI participants were enrolled and randomly assigned to receive either 1 mA or 2 mA stimulation as home-based sessions over 10 consecutive weekdays.
- **Connectivity: Development of point-of-care technology to assess brain network function after acquired brain injury.** Acquired brain injuries are heterogenous, with injuries varying in severity and location of the damage within the brain. Modern neuroimaging methods used in research enable examination of brain network connectivity post-injury. Using HD-EEG and MRI in ABI participants and healthy controls, this research study examines the relationship between brain connectivity and symptom/behaviour changes (i.e., brain-behaviour correlations) present in childhood ABI and aims to establish feasibility results that identify brain-based markers of ABI recovery.
- **The first Australian and New Zealand Guideline for the management of concussion and mild traumatic brain injury in adults and children.** While many people recover quickly and uneventfully from a mild traumatic brain injury (mTBI), a significant proportion of children and adults have ongoing symptoms which significantly impair function and quality of life. However, the management of mTBI is highly variable across healthcare practitioners and there is a lack of knowledge about the best practice and care of patients with persistent symptoms. This project will design Australian clinical practice guideline relevant to all persons with mTBI. It aims to help standardize care, improve outcomes, limit the impact of prolonged symptoms, and give health professionals confidence to deliver consistent best-practice care. It will provide a framework of contextual recommendations that can be easily and cost-effectively implemented by healthcare professionals as they assess and manage patients with mTBI in their journey from injury to recovery.

Child and Youth Mental Health Research Group

Lead Researcher: Professor James Scott



The **Child and Youth Mental Health Research Group** delivers a programme of research focused on the prevention of mental illness and improving the delivery of mental health care in children and young people. The programme has four overarching themes of research. The identification and prevention of risk factors for mental illness, in particular

child maltreatment and bullying victimisation. Epidemiological research to better understand the changing incidence and prevalence of mental illness in young people and the factors that influence these trends. Improvements in the provision of mental health care of young people and support for healthy neurodevelopment through clinical trials of novel and innovative interventions. Integrating rapidly evolving knowledge of genetics, genomics and immunology into clinical practice to improve the understanding of the clinical course of mental illness and the clinical response to treatment.



Key Projects:

- **The Australian Child Maltreatment Study:** This landmark study has measured the prevalence of all five forms of child maltreatment and their association with later mental illness, suicide, self-harm and other health problems in later life.
- **Improvements Outcomes of Mental health:** This large study has examined the outcomes over two years of young children with developmental problems attending the Child Development Programme at Children's Health Queensland.
- **Watch Me Grow:** A clinical trial of an internet application (App) that empowers parents to understand their young children's developmental progress and advises them when further support for their children may be needed. The Watch Me Grow App detects delays in development early so that parents can access early support for their child to prevent later disability. This study is a multi-site collaboration with UNSW and The University of Queensland.
- **The National Adolescent Mental Health Surveys (NAMHS)** is a large international study led by The University of Queensland in collaboration with Johns Hopkins University (JHU; United States), Universitas Gadjah Mada (UGM; Indonesia), The African Population and Health Research Centre (APHRC; Kenya) and the Vietnam Academy of Social Sciences (VASS). NAMHS has for the first time successfully completed national surveys to measure the prevalence of adolescent mental disorders, their associated risk and protective factors and clinical service use in Indonesia, Kenya and Vietnam.
- **The Psychiatric Genomics Consortium:** The Psychiatric Genomics Consortium is one of the most innovative experiments in the history of psychiatry. It brings together researchers from 36 countries and data from more than 900,000 participants to understand genetic risk factors for psychiatric disorders. Our group plays a key role in the perinatal depression, obsessive compulsive disorder, ADHD and antidepressant response groups.'
- **Gene Environment interactions in Mental health trajectories of Youth (Youth-GEMs) consortium:** This is an Australia-European Union funded program, that aims to equip all children and young people with the foundations for optimal health and development trajectories that deliver the best opportunities in life.

Fetal Alcohol Spectrum Disorder Research Collaboration (FASD)

Lead Researcher: Dr Natasha Reid



The work of the **Fetal Alcohol Spectrum Disorder Research Collaboration** aims to improve the health and wellbeing of children who have experienced prenatal alcohol exposure/fetal alcohol spectrum disorder and their families. Firstly, through investigating ways to improve prevention of prenatal alcohol exposure. It is common for many people in Australia to

be consuming alcohol before they know that they are pregnant. Whilst some people are able to stop drinking once they find out they are pregnant; for others it can be very difficult as they may not have received the type of supports needed to be able to stop drinking.

For those who have experienced prenatal alcohol exposure we aim to investigate ways of improving assessment, diagnosis, and support. Ensuring that children and adolescents are provided with holistic and integrated care that meets their physical, developmental and wellbeing needs. Additionally, we understand that it can be very challenging for parents, caregivers and families caring for children with prenatal alcohol exposure/fetal alcohol spectrum disorder and thus, our research and clinic also focuses on how we can better support and improve caregiver and family wellbeing.

Key Projects:

- **Expansion of FASD diagnostic services in Queensland.** The aim of this project is to collaborate with practitioners to embed assessment and diagnosis of FASD into routine practice, increasing the accessibility of services for children and families. The project involves working with a wide range of stakeholders to co-design assessment and diagnostic services for FASD and is funded by the Commonwealth Department of Health.
- **Review, update and dissemination of the Australian guidelines for assessment and diagnosis of FASD.** This review is being undertaken according to the NHMRC guidelines with the goal of being Australia's first NHMRC-endorsed clinical practice guidelines for the assessment and diagnosis of FASD. On this project, we are collaborating with people with lived and living experience, people with cultural expertise, clinicians and researchers from around Australia and Aotearoa (New Zealand).
- **Gut microbiota and immune system alterations in children with Fetal Alcohol Spectrum Disorder (FASD): Implications for mental health.** The aim of this project is to better understand the complex interplay between physical health and neurodevelopmental functioning. Data collection for this project is taking place in our UQ Neurodevelopmental Clinic. The project is a collaboration with Brock University and University of Calgary.

Queensland Cerebral Palsy Rehabilitation and Research Centre

Lead Researchers: Professor Roslyn Boyd and Associate Professor Leanne Sakzewski



The **Queensland Cerebral Palsy and Rehabilitation Research Centre (QCPRRC)** was established to improve health outcomes for children with cerebral palsy and acquired brain injury. Our mission is to lead research, innovation and education to advance the health of children with cerebral palsy, acquired brain injury and

related disabilities, supporting them and their families across their lifespan. The QCPRRC aims to conduct bench to bedside, and community research, into the aetiology, neural mechanisms, early detection, early intervention, management and outcomes of children with these disabilities. Seven key research themes include: neuroscience, neurorehabilitation, early detection, novel therapies, nutritional outcomes, parenting, mental health & social skills interventions, and translational research.

Key Projects:

- **LEAP-CP Early Detection and Early Intervention studies:** Learning through Everyday Activities with Parents, for infants at high risk of CP in Indigenous Australians, Sri Lanka and Georgia. Lead: Dr Kath Benfer, Professor Roslyn Boyd. Funding: NHMRC/EU Horizon Grant. A peer-to-peer early intervention program for infants at high chance of cerebral palsy and other adverse neurodevelopmental outcomes.

- **School Readiness:** 4–6-year-old follow-up of randomised trials of neuroprotection and rehabilitation for children at risk of cerebral palsy. Lead: Professor Roslyn Boyd. Funding: MRFF First 1,000 days grant. Study to understand the impact of early interventions on later school readiness in children with cerebral palsy.
- **EPINO Early Prediction of Infant Neurodevelopmental Outcomes- Cerebral Palsy Synergy Program:** Very early biomarkers (MRI, Clinical, HD EEG, Genomics, blood) to detect and predict adverse neurodevelopmental outcomes (CP, Autism, FASD) Lead: Professor Roslyn Boyd. Funding: NHMRC Synergy program grant. Study to detect early brain injury in the first weeks of life, multisite prospective cohort study.
- **PACT & Early PACT:** Parent Acceptance and Commitment Therapy, and Early PACT for children under 3 years of age. Lead: Dr Koa Whittingham. Funding: MRFF Allied Health grant. A study testing an online parent support program for parents of younger children with disabilities.
- **ENACT:** ENvironmental enrichment for infants: parenting with Acceptance and Commitment Therapy – an innovative intervention for infants at risk of Autism Spectrum Disorder. Lead: Dr Koa Whittingham. Funding: two PhD scholars.
- **Running4Health:** Randomised controlled trial of Frame Running for young people with cerebral palsy. Lead: Dr Sarah Reedman. Funding: MRFF EMCR grant. Testing Frame Running, a parasport, to improve fitness in young people with cerebral palsy.
- **Active Strides CP:** Randomised trial of intensive rehabilitation (combined intensive gait and cycling training) for children with moderate to severe bilateral cerebral palsy. Lead: Associate Professor Leanne Sakzewski. Funding: NHMRC Clinical Trials grant. Intensive package of physiotherapy using functional electrical stimulation cycling and partial body weight support treadmill training to improve gross motor capacity and community mobility and cycling.
- **Participate-CP:** Optimising participation in physically active leisure for children with cerebral palsy: A randomised controlled trial. Lead: Associate Professor Leanne Sakzewski. Funding: NHMRC Clinical Trials grant. Novel intervention targeting barriers to participation in physically active leisure for kids with cerebral palsy.
- **Preschool HABIL-ILE:** A randomised trial of Hand Arm Bimanual Intensive Training Including Lower Extremity training for children with bilateral cerebral palsy. Lead: Associate Professor Leanne Sakzewski. Funding: Ramaciotti Health Investment Grant. Intensive motor therapy working on helping children achieve goals for mobility and independence in daily life activities.
- **PEERS Plus (Program for the Education and Enrichment of Relational Skills):** Optimising social competency in 8-to-13-year-old children with acquired brain injury and cerebral palsy. Lead: Associate Professor Leanne Sakzewski. Funding: National Injury Insurance Scheme QLD (NIISQ). Group social skills program with a sociodramatic focus to build friendship skills in 8-to-13-year-old children with brain injuries.
- **PEERS Telehealth:** Mixed methods randomised controlled trial of telehealth program PEERS for teens with brain injuries. Lead: Associate Professor Leanne Sakzewski. Funding: NIISQ. Online delivered group social skills program to build friendship skills in teenagers with brain injuries.
- **AIinCP-Artificial Intelligence in Unilateral Cerebral Palsy:** EU Horizon program to develop diagnostic and therapeutic technology by combining data from MRI, clinical, wearable sensors, kinematic biomarkers using Machine Learning to improve the diagnosis of Unilateral CP and outcomes of Action Observation therapy delivered in the Home in Australia, Italy, Spain, Holland and Georgia. Lead: Professor Roslyn Boyd at UQ. Dr Alex Pagnozzi, CSIRO. Funding: NHMRC/EU Horizon Grant.
- **TRANSMIT-CP:** The TRANSMIT team will build mobile health aides that filter effective intervention options for children with CP, that overcomes the need to understand complex health information, and that supports consumers to choose, clinicians to provide, and policymakers to reimburse effective treatments. Funding: NHMRC. Leads: Associate Professor Leanne Sakzewski, Professor Roslyn Boyd.
- **Drive-CP CRE:** Together, we will diagnose CP early through a national screening program, then develop and transmit new early interventions, that reduce severity and improve independence. We will use artificial intelligence to automate screening for diagnosis. Funding: NHMRC. Leads: Professor Roslyn Boyd, Associate Professor Leanne Sakzewski.
- **GAME:** GAME is an early training intervention based on the key neuroscience principles of activity-dependent plasticity, enriched environments, and on successful training interventions known to work in older children with cerebral palsy and adults post-stroke. Funding: NHMRC. Leads: Professor Roslyn Boyd, Dr Koa Whittingham.
- **KiTE-CP:** The aim of KiTE CP is early identification and diagnosis of infants who have cerebral palsy (CP) or who are at high-risk of CP by six months-of-age. Funding: NHMRC. Lead: Professor Roslyn Boyd.

Research Priority 2

Population, Environment and Health

Applied Public Health Research Group

Lead Researcher: Associate Professor Gulam Khandaker



The **Applied Public Health Research Group** established within the Central Queensland Public Health Unit is a diverse group of researchers, academics and clinicians driven by the common goal of understanding influencing factors that contribute to population health. The research group apply scientific knowledge and evidence to propose interventions

and health policies that target positive community health outcomes. The focus of the Applied Public Health Research Group encompasses clinical trials, applied epidemiology, communicable disease control, disease surveillance, immunisation programs, public health promotions and health systems research. The Applied Public Health Research Group collaborates with various stakeholders, organisations, and research groups to further contribute their knowledge and resources to the continued evolution of preventative health.

Key Projects:

- **A multi-center, prospective, longitudinal cohort study in adults aged 18 to 29 years of the natural history of Chlamydia trachomatis infection and reinfection.** Sanofi Pasteur Inc. The Central Queensland Public Health Unit have been selected by Sanofi Pasteur Inc to participate in a clinical trial studying urogenital and extragenital infections or reinfections caused by Chlamydia trachomatis Bacteria. The surveillance study will be undertaken in conjunction with the Central Queensland Sexual Health Clinic and True Relationships and Reproductive Health.
- **Timely diagnosis and management of viral respiratory infections in aged care facilities in Central Queensland- an applied public health approach.** GlaxoSmithKline Australia Pty Ltd (GSK). The Central Queensland Public Health Unit monitors transmission of respiratory infections within Residential Aged Care Facilities and deploy a public health rapid response team to control and manage outbreaks of respiratory infections within this vulnerable population group. GlaxoSmithKline (GSK) support this undertaking with the aim to reduce hospitalisations through timely diagnosis and management of respiratory infections in Aged Care Facilities.

- **Epidemiology of respiratory syncytial virus infections in Central Queensland: retrospective data analysis with prospective hospital-based surveillance to estimates of the disease burden in a sub-tropical region in Australia.** Sanofi Pasteur Inc. Respiratory Syncytial Virus (RSV) is the leading cause of bronchiolitis and pneumonia in infants. This study supported by Sanofi Pasteur Inc aims to gather vital epidemiology and seasonality data in subtropical regions. This information is essential to plan and implement preventative strategies.



Childhood Allergy and Epidemiology

Lead Researcher: Associate Professor Jennifer Koplin



Over five million Australians currently live with allergic disease. Australia has been labelled the food allergy capital of the world, with one in ten infants allergic to one or more foods. The research of the **Childhood Allergy and Epidemiology Research Group** aims to change this. Our research program includes population-based cohort

studies, clinical trials testing allergy prevention and management strategies, and living systematic reviews to seamlessly connect evidence and practice. As part of the leadership of the National Allergy Centre of Excellence and Centre of Research Excellence in Food Allergy, we are working with a network of leading allergy researchers across Australia to improve the lives of the millions of Australians living with allergic disease.

Key Projects:

- **National Allergy Centre of Excellence (NACE):** The NACE was established in 2022 with an investment of \$10.2 million from the Australian Government to address the rising toll of allergic disease in Australia. The NACE generate tools and resources to facilitate and accelerate allergy research and to give consumers, clinicians and policy-makers access to the latest evidence-based research into allergy preventions, intervention and treatment. Queensland is leading two of the four pillars that underpin the NACE's national plan of action. CHRC



is leading the Evidence and Translation Pillar, which is establishing a series of living systematic reviews to accelerate the translation of research evidence and works closely with peak medical bodies, consumers and international partners to seamlessly connect evidence and practice.

- **Breast milk research:** In 2023, we were awarded over \$2 million in funding from an NHMRC Partnership grant and Ramsay Hospital Research Foundation (RHRF) grant to evaluate short-term supplementation of pasteurised donor human milk as a bridge to breastfeeding for term-born infants. This program of work, which will be led by CHRC and conducted in collaboration with RHRF, Australian Red Cross Lifeblood, and the Murdoch Children's Research Institute, drives research dedicated to improving outcomes for women and infants, particularly for mothers with gestational diabetes.
- **Centre for Food Allergy Research (CFAR):** CFAR was established as an NHMRC Centre of Research Excellence (CRE) in 2013, has received three consecutive CRE grants, the latest in 2023, and has been named as a World Allergy Organization Centre of Excellence. Associate Professor Koplin is a Chief Investigator and lead of the Food Allergy Prevention stream of the CFAR, which brings together multiple well-phenotyped population-based cohorts and allergy prevention clinical trials to identify early determinants of immune health and modifiable factors that prevent allergic disease; develop risk prediction tools; and understand the mechanisms that underpin allergy predisposition for future targeted prevention strategies.

International Projects/Collaborations:

- **Health literacy in early childhood allergy prevention (HELICAP):** The childhood allergy and epidemiology group are international collaborators for the HELICAP project (<https://www.helicap.org/en/teilprojekte/living-systematic-review>). This project is funded by the German Research Foundation (refunded in 2023) and led by Professor Christian Apfelbacher at the Otto-von-Guericke University of Magdeburg.
- **Global Atopic Dermatitis Atlas:** Associate Professor Koplin was a collaborator on a successful grant funded by the LEO Foundation in October 2023, and has been invited to be a member of the steering committee and regional coordinator for the GADA project (<https://www.atopicdermatitisatlas.org/en/gada/about-gada>), which will address key gaps in knowledge relating to the global burden and risk factors for atopic dermatitis.

Children's Physical Activity Research Group (CPARG)

Lead Researcher: Professor Stewart Trost



The Children's Physical Activity Research Group (CPARG)

is dedicated to expanding the body of knowledge on physical activity and its promotion in children and adolescents. An overarching aim of CPARG is to enhance the health of young people by generating the knowledge needed to design and implement effective programs to increase

physical activity in children with typical development and those with chronic and complex health conditions. CPARG provides training and support to multiple research groups for ongoing studies such as QCPRRC School, Readiness, Active Strides and Run4 Health, for the objective measurement and monitoring of physical activity and sleep. CPARG's Paediatric Exercise testing Laboratory is equipped with a range of state-of-the-art equipment for assessing cardiorespiratory fitness, energy expenditure, physical activity and sleep (accelerometers and wearable sensors), along with functional tests of strength, mobility, and movement competence.

Key Projects:

- **BREATH: Short- and long-term effects of therapeutic exercise in children with bronchiectasis: A multi-centre randomised controlled trial.** Pilot work by our research team has established that children with bronchiectasis experience significant developmental delays in fundamental movement skills (FMS) and are insufficiently active for health benefit. We have developed a novel, play-based therapeutic exercise program specifically designed to improve movement competence and fitness in children with bronchiectasis. The BREATH Trial is an NHMRC-funded multi-centre RCT to evaluate the efficacy of our novel, play-based therapeutic exercise program with proportion of children with no exacerbations over a 12-month follow-up period as the primary outcome. Our secondary outcomes assessed the program's impact on FMS proficiency, physical activity, cardiorespiratory fitness, HR-QoL, and lung function. Funding: NHMRC.
- **PACTS: Effects of therapeutic exercise in paediatric survivors of childhood posterior fossa brain tumours.** Over 60% of childhood brain cancers are located in the lower region of the brain known as the 'posterior fossa'. Sadly, surviving posterior fossa tumours often comes at the cost of decreased physical functioning and significant neurocognitive impairment. Children with other types of cancer who participate in

therapeutic exercise programs show significant improvements in muscular strength, cognitive function and cardiorespiratory fitness. However, there has been no research into the impact for children with posterior fossa tumours. The PACTS RCT is investigating whether a 12-week therapeutic exercise program improves cardiorespiratory fitness, functional strength, cognitive function, and quality of life in patients with posterior fossa brain tumours. Funding: Children's Hospital Foundation.

- **Physical Activity Program for All (APAP-OMNI): Implementation and scale-up of a consumer co-designed physical activity promotion program for people with moderate-to-profound disabilities.** This project aims to address the needs of approximately 1.4 million Australians (32% of people with disability) that have a severe or profound disability, requiring assistance with fundamental activities of daily living. Focusing on enhancing physical activity (PA), the APAP-OMNI project is a two-phase initiative to establish a sustainable, consumer co-designed physical activity promotion program. Phase 1 involves extensive consumer engagement and consultation with our industry partners to adapt and evaluate our efficacious best practice PA promotion model (APAP) so it can be applied to those with more moderate-to-profound disabilities including those with one or more physical, sensory, cognitive, or intellectual disabilities (APAP-OMNI). In Phase 2, APAP-OMNI will be implemented through a co-designed workforce capacity and capability building training package to enable allied health professionals working in different settings to deliver APAP-OMNI at a scale in their own communities. This project aims to provide real-world evidence of a scalable, consumer co-designed PA promotion program for people with moderate-to-profound disabilities. Funding: MRFF - Effective Treatments and Therapies Grant.
- **WCRF Sarcoma: Development, feasibility, and efficacy of a co-designed exercise program for survivors of paediatric sarcoma.** Sarcomas make up about 20% of all childhood cancer diagnoses. While survival rates are improving, child survivors often face lasting complications that lasts into adulthood. While therapeutic exercise has favourable effects on physical functioning in other paediatric patient groups, including other cancer types, there is limited efficacy for this patient group. This study has two phases; Phase 1 involves interviews with survivors of paediatric sarcoma and parents to understand their views on exercise, assess feelings about the proposed training program and adapt our goal-directed exercise intervention based on their specific needs and interests. Phase 2 consists of a 12-week goal-directed exercise program. Funding: Wereld Kanker Onderzoek Fonds (WKOF) administered by World Cancer Research Fund International.

Children's Health and Environment Program

Lead Researchers: Professor Peter Sly and Professor Paul Robinson



The **Children's Health and Environment Program (CHEP)** explores how early life factors increase risk of disease through clinical studies, involvement in longitudinal birth cohorts, environmental epidemiology and laboratory-based science to understand the mechanisms underlying disease risk. By identifying the reasons for increased risk, the group aims to design implementation strategies to reduce that risk and provide evidence to inform public health policy. Physician expertise lies in respiratory medicine, but there is broader interest within the group for understanding impact in other important non-communicable diseases.

Key Projects:

- **Home-based monitoring to improve detection of disease, disease control and disease exacerbations.** This research program builds on previous work outlining the feasibility of home-based oscillometry monitoring for extended periods in school aged children with asthma and seeks to explore its utility in younger children and other disease conditions such as Cystic Fibrosis and those developing lung disease following bone marrow transplantation. In the Asthma setting it has been shown to improve detection of disease control and exacerbations compared to conventional methods.
- **Bushfire smoke and air quality in residential homes.** Smoke from bushfires and hazard-reducing burns (HRB), collectively known as bushfire smoke (BFS), is toxic and poses a significant threat to human health. More information is needed on pollutants in smoke, how much penetrates homes, and what health effects result from exposure. Our novel study uses HRB to measure environmental, occupational, and household exposure before, during and after a BFS event. Results can inform more effective public health advice.
- **Innate immunity and response to oxidative stress in the airway epithelium.** Oxidative stress can be generated by environmental exposure. Increase in oxidative stress cause airway and lung damage, which may initiate or worsen respiratory disease. This project aims to investigate the innate immune responses following environmental exposure and/or respiratory viral infections on human respiratory epithelium. In addition, investigate on early intervention strategies with dietary antioxidants to improve respiratory health and reduce the risk of long-term chronic diseases.



Kids Sleep Research

Lead Researcher: Associate Professor Jasneek Chawla



Kids Sleep Research aims to improve the health and wellbeing of children by targeting sleep to improve long-term functional outcomes. The group is led by **Associate Professor Jasneek Chawla**, a paediatric respiratory and sleep physician and researcher. The projects of the Kids Sleep Research group are integrated into three themes:

- 1) **Sleep Experiences and Patient Voice.** This includes qualitative and quantitative research which is consumer-focused to ensure our understanding of how sleep affects families can be improved, and that solutions to improve outcomes are in consultation with individuals who have lived experience of sleep problems.
- 2) **Sleep in Specific Populations.** This research focuses on populations of children who are at high risk for sleep problems and involves undertaking specific cohort studies. This includes a large body of work relating to sleep in children with neurodisability.
- 3) **Novel Sleep Technologies.** This theme focuses on evaluating and translating new sleep technology for clinical utility. It engages with industry partners and academics with backgrounds in electrical and

biomedical engineering. This work explores novel approaches, such as artificial intelligence, to predict sleep problems in children.

Key Projects:

- **Early Sleep Interventions to Improve Outcomes in Children with Neurodisability (MRFF Chronic Neuro Conditions 2022-2025).** This is a multi-centre three-phased study that includes a) a large cross-sectional survey of families of children with neurodisability to understand more about sleep in this population, b) evaluation of a novel sleep mat to improve diagnosis of sleep breathing difficulties in children with neurodisability, and c) a randomised controlled trial of sleep interventions for children with neurodisability.
- **Sleep for Health in Hospitals (SERTA 2023).** This project will evaluate the current experiences of sleep amongst inpatients at the Queensland Children's Hospital and then undertake a co-design with family to adapt a UK-developed Sleep for Health in Hospitals Program which will then be implemented as a trial.
- **Families in Focus – Embedding the voices of children with a disability and their families in research priorities (Life course centre seed funding).** This project partners with the Early Childhood Education team at Queensland Brain Institute, The University of Queensland, and seeks to engage with families of children with disability using novel interactive methods to understand the research priorities for this population of children and their families.



Queensland Cystic Fibrosis Research Program

Lead Researchers: Professor Claire Wainwright and Professor Peter Sly



Queensland Cystic Fibrosis Research Program is Queensland's first cystic fibrosis research program established to help improve outcomes for patients living with the life-threatening genetic disorder. The program was announced in October 2019 and is supported by \$15 million of funding from The University of Queensland, US-based Cystic Fibrosis Foundation, the Children's Hospital Foundation, Department of Health Medical Research Future Fund and an anonymous donor.

Two new research projects will be the focus of the program, the Early Life Origins of CF lung disease (the ELO study), and the Mycobacterium abscessus (MABS) pulmonary disease program. The research will be carried out in partnership with Children's Health Queensland Hospital and Health Service, the Metro North Hospital and Health Service and The Prince Charles Hospital.

Key Projects:

- **Early origins of Cystic Fibrosis (CF) lung disease.** There is growing concern that CF lung disease begins very early in life and there has been much focus recently on trying to better understand early CF lung disease. The Early Life Origins of CF Disease (ELO) Study is an observational study to better understand the mechanisms of early disease onset and how CF lung disease progresses throughout a patients' life.
- **Macrophage inflammation and functions in cystic fibrosis (CF).** We recently reported that activation of inflammation-resolving M2 macrophages were impaired in CF. In addition, we observed early expression of pro-inflammatory M1 macrophage markers in monocyte-derived M0 macrophages in patients with CF. Similar M1 and M2 markers expression was observed when macrophages from healthy donors were treated with CFTR channel inhibitor suggesting that defect M2 polarization is CFTR-dependent. We are aiming to study the link between CFTR function and macrophage polarization and functions.



Research Priority 3

Personalised Prevention and Care

Children's Musculoskeletal, Endocrine and Diabetes Research Group (MED-Kids)

Lead Researcher: Professor Craig Munns



The **Children's Musculoskeletal, Endocrine and Diabetes Research Group (MED-Kids)** seeks to address the intricate challenges children face with musculoskeletal, endocrine disorders, and diabetes, recognising the profound impact on their quality of life. Children navigating these conditions encounter hurdles that

extend beyond physical health, affecting their overall well-being and daily experiences. With an unwavering commitment to excellence, MEDKids envisions becoming Australia's leading research program for child and adolescent Musculoskeletal, Endocrine, and Diabetes studies. By seamlessly integrating interdisciplinary research, education, collaboration and advocacy, MEDKids strives to redefine standards of care, champion breakthroughs, and empower every child and adolescent to live their best life. This visionary mission underscores the dedication to advancing medical knowledge and transforming the landscape of paediatric health for children with these conditions.

Key Projects:

- **The Australian Cerebral Palsy Musculoskeletal Health Network Study (AusCP MSK).** This MRFF-funded national cohort study collects retrospective and prospective data on children with cerebral palsy to identify early biomarkers of the development and progression of spine, hip and bone fragility complications. The early detection of musculoskeletal complications in children with cerebral palsy (CP), coupled with evidence-based preventative interventions, will reduce the impact of spine, hip and skeletal fragility disorders in children, adolescents and adults with CP.
- **Children with Lower Limb Pain (CLLiP).** This MRFF-funded study is working with families, community, and health care providers to improve the lives, wellbeing and outcomes of children and adolescents experiencing chronic lower limb pain. This research will provide the foundation for evidence-based, family-centred care in the face of chronic lower limb pain.
- **The diagnosis and characterisation of primary bone disorders using urinary stem cells.** This project is looking at novel techniques for diagnosing genetic bone disorders in children. We are using RNA sequencing from urine-derived cells to identify and characterise genetic variants in children with bone disorders where a cause hasn't been identified on clinical genetic testing.
- **QBall - Improving the musculoskeletal health and quality of life in children with Acute Lymphoblastic Leukemia.** In collaboration with Department of Oncology at Queensland Children's Hospital, we are investigating the musculoskeletal health of children and adolescents who have had leukaemia. Children diagnosed with ALL or LBL have a survivorship of over 80%, but there is a hidden musculoskeletal burden from their treatment. Survivors experience debilitating chronic musculoskeletal pain, reduced bone density, pathological vertebral or long-bone fractures, immobility, fatigue and avascular necrosis requiring joint replacement.
- **Back In Action.** This project aims to determine if paraspinal muscle force symmetry differs in adolescents with idiopathic scoliosis compared to children with typically developing spines.
- **Australasian Type 1 Diabetes Immunotherapy Collaborative.** ATIC is a collaboration of clinicians and researchers focused on facilitating clinical trials for immunotherapies for children with T1D, and advocating for funding of immunotherapies. Queensland Children's Hospital are involved in several stage-3 T1D trials through the ATIC.
- **TrialNet.** TrialNet is an international network of leading academic institutions, endocrinologists, physicians, scientists and healthcare teams at the forefront of T1D research. Queensland Children's Hospital is a site for various screening and prevention trials run by TrialNet.
- **Environmental Determinants of Islet Autoimmunity (ENDIA) Study.** The ENDIA study is an observational cohort study involving 1500 children recruited at birth who have a first-degree relative with T1D. The study aims to investigate the various environmental factors which contribute to islet cell autoimmunity and, therefore, development of T1D.
- **Juvenile Diabetes Research Foundation (JDRF) Global Centre of Excellence.** Queensland Children's Hospital is a lead site for the JDRF Global Centre of Excellence which is focused on improving clinical outcomes for children with T1D. Its principal research domains include models of care, and health economics.

Ian Frazer Centre for Children's Immunotherapy Research (IFCCIR)

Lead Researcher: Professor Di Yu



The Ian Frazer Centre for Children's Immunotherapy Research (IFCCIR) is the first dedicated children's immunotherapy research centre in Australia, led by The University of Queensland in collaboration with the Children's Hospital Foundation, Children's Health Queensland and QIMR Berghofer. The Centre was established

in August 2022 thanks to funding from the Children's Hospital Foundation.

The Centre is dedicated to the innovation of new immunotherapies and better translation of successful adult treatments for children and adolescents suffering from cancer and other life-threatening immune-related diseases, such as autoimmune and infectious diseases. Through collaborative research among immunologists, paediatricians and technology experts, the Centre applies cutting-edge technologies to understand the specific features of children's immune system in response to disease and therapy, and rationally design new diagnoses and immunotherapies with high effectiveness and low adverse effects in children.

Key Projects:

- **Paediatric Immune Cell Atlas (PICA).** The development of new immunotherapies for childhood diseases including cancer is challenging, due to a limited understanding of immune system development and function in children. This project aims to address this issue by establishing a reference atlas of immune cells from healthy children – the “Paediatric Immune Cell Atlas (PICA).” PICA will allow us to identify the features of immune cell types, pathways, and interactions in the immune system specific to different developmental childhood stages, thus supporting immunotherapy innovation.
- **Personal Immunity-guided Cancer Vaccines (PICVac).** The PICVac project aims to develop personalised mRNA vaccines to treat childhood cancer. Treatments will be tailored to each patient's genetic makeup and anti-tumour immune responses, thereby optimising efficacy and reducing harmful side effects.



Computational Immunology

Lead Researcher: Dr Kelvin Tuong



A cancer diagnosis at any age is upsetting, but felt more harshly when the patient is a young child who has only started out in life. Compared to adult cancer patients, the window of opportunity to help child cancer patients is especially short. We need to create an early warning system for paediatric cancers. Specialized immune cells, known as T-cells and B-cells, use

specific receptors to recognize tumour antigens and fight cancerous cells. The vision of the **Computational Immunology** lab's is to harness these cells and their receptors to enable early cancer detection and disease monitoring. These specific adaptive immune receptors are essential for all aspects of the T- and B-cell's life cycle, serving as natural 'time-keepers' of the immune response against cancer progression. We will create bespoke computational algorithms to explore the properties that define how effective these immune cells are in childhood cancer, perform high resolution gene expression profiling at the single-cell level and develop highly advanced computer models that can be used to detect adaptive immune receptors that are targeted towards cancer.

Key Projects:

- **Evaluating machine learning models classifying cancer-specific pattern in children with cancer.** Recently, sophisticated computer models have shown great promise in predicting cancer just from changes to the immune repertoires within the blood

of cancer patients. These models were also used to detect responders/non-responders in immunotherapy clinical trials. However, this was exclusively focused on adults. The Tuong lab is collaborating with clinicians in Queensland Children's Hospital and Pathology QLD and computer scientists to develop new machine learning/ deep learning models using childhood cancer data to examine whether they would be useful for predicting childhood cancer relapse.

- **Profiling the expression of active genes and adaptive immune receptors on cancer cells to develop a deeper understanding of paediatric hematopoietic cancer.** Using the exciting single-cell RNA-sequencing technology, we can now profile the gene expression landscape of any given sample down to the single-cell level, allowing us to examine how cells behave in complex tissues at extremely high resolution. The Tuong lab is collaborating with the teams at Ian Frazer Centre for Children's Immunotherapy Research to generate a comprehensive single-cell atlas of the immune cells in children, including healthy and cancer samples. This rich resource will help us address the important questions underlying childhood immunity and will help identify targets for immunotherapy.
- **Developing single-cell trajectory analysis methods for adaptive immune cells.** The Tuong lab is interested in harnessing the adaptive immune receptors expressed by T and B cells for understanding immune cell development and function in health and in cancer. We have developed bioinformatic tools and packages to achieve this, including a bespoke software tailored for single-cell T/B Cell Receptor sequencing analysis, *Dandelion*. This new concept for performing trajectory analysis using immune repertoires was published recently in *Nature Biotechnology*. Ongoing work includes exploring different ways to combine the adaptive immune receptors with the gene expression of the immune cells at a single-cell level to track the T and B cell response to cancer, infection and therapy.

Children's Intensive Care Research Program (ChIRP)

Lead Researcher: Associate Professor Kristen Gibbons



Dedicated to improving outcomes for critically ill children, the **Children's Intensive Care Research Program (ChIRP)** conducts multicentre, multinational studies, and prioritises multidisciplinary, local, national, and international collaborations. ChIRP is a collaborative team with staff and students from varied

fields, including data science, data management, nursing, dietetics, intensive care, medicine, psychology, public health, and bioinformatics. In 2023, facilitated by competitive collaborative grants (e.g., Council on Australia Latin America Relations; Unnati), ChIRP has prioritised the development and strengthening of local and international collaborations within UQ, and with other universities, hospital and health services, industry partners, and peak bodies. ChIRP is making global impacts including building paediatric clinical trial capacity in India and Brazil, enhancing consent processes across the life-course for children within and after intensive care, advancing paediatric precision medicine through digital clinical trials, culminating in changes to clinical practice.

Key Projects:

- **Resuscitation in Paediatric Septic Shock using Mega-Dose Vitamin C and Hydrocortisone - A Randomised Controlled Multicentre Trial (The RESPOND Study).** Assessing the use of hydrocortisone and vitamin C in children with septic shock in Paediatric Intensive Care Units (PICUs) across high and low resourced settings to support blood pressures (inotropes, steroids, vitamins) and improve blood flow to the organs. Funding: Children's Hospital Foundation; Financial Markets Foundation for Children; NHMRC.
- **Improving the lives of critically ill children: Clinical trial capacity building in India through the RESPOND Trial.** This project delivers education to Indian PICU clinicians on clinical trial methodology through a series of workshops, webinars, and site visits, ensuring they can participate in international clinical trials and enhance their international visibility, ultimately benefitting their sickest children. Funding: ARCH-India 'Unnati' Research Collaboration, Australian Government Department of Education.
- **Rapid Acute Paediatric Diagnosis of Infection in Suspected Sepsis (RAPIDS).** This multicentre trial uses the most modern tests to assess gene expression to provide an accurate diagnosis of children with a suspected infection within hours (usually up to 48 hours). The research is determining whether this new technology could become standard of care, resulting in faster detection of sepsis and therefore, more timely and efficient treatment of infections, reducing the unnecessary use of antibiotics. Funding: MRFF Genomics Health Futures Mission; Children's Hospital Foundation; Gold Coast Hospital Foundation; Emergency Medicine Foundation; Far North Queensland Foundation; Townsville Hospital and Health Service SERTA; Brisbane Diamantina Health Partners; Australian Infectious Diseases Research Centre.
- **Rapid Personalised Diagnosis of Sepsis in Children.** This study aims to use rapid omics technology to characterise the metabolome and proteome and search for biological phenotypes associated with sepsis to improve methods of diagnosis. This has great potential to result in better outcomes, lower costs, and less inappropriate antimicrobial use. Funding: Personalised Health and Related Technologies – ETH Domain (Switzerland).
- **Gene Expression to Predict Long-Term Outcome in Infants After Heart Surgery (The NITRIC Follow-up Study).** One out of four infants undergoing heart surgery develop a harmful response to cardiopulmonary bypass which leads to low cardiac output syndrome and prolonged severe organ failure post heart surgery in infants. We hypothesise that gene expression transcripts can identify this harmful response. Combinations of transcripts will yield a signature that will allow rapid discrimination of such patients. We will assess both short- and long-term outcomes which may ultimately enable the development of biomarkers for testing at the bedside. Funding: MRFF Cardiovascular Health Mission – Congenital Heart Disease.
- **Restrictive vs Standard Fluid Management in Mechanically Ventilated Children Admitted to PICU - a Pilot Randomised Controlled Trial (REDUCE).** Provision of intravenous fluids is a key component of treatment within the PICU. However, excess fluid causes oedema which can impede oxygen delivery to cells, resulting in an increasing need for respiratory support, as well as increasing the length of stay in the PICU. This trial assesses whether administering a safe restricted volume of intravenous fluids will achieve better outcomes compared to a liberal approach to fluid management. Funding: Children's Hospital Foundation.
- **Machine Learning in the Paediatric Intensive Care Unit: Development of Risk Prediction Models (MELODY).** Using advanced machine learning techniques, this project will develop a dynamic risk prediction model for early detection of patient deterioration using extensive, high-resolution data from >32,500 patient admissions across three large PICUs (Brisbane, Melbourne, and Zurich). The resultant targeted treatments will increase the quality of life for PICU patients and their families, reducing mortality and the impact of neurodevelopmental sequelae. Funding: Ramaciotti Foundation.
- **Assessing School Readiness Outcomes in Young Children Admitted to the Paediatric Intensive Care Unit using Machine Learning and Population-based Registry Data in Queensland, Australia (READY-PICU).** One in three PICU survivors will have ongoing problems with the way they move, learn, think, and feel long-term. This research uses machine learning to understand what parts of PICU care affected the developmental outcomes of over 2000 PICU survivors in Queensland during their first year of school. This will assist clinicians to create programs to help such children thrive at school. Funding: The ZOLL Foundation.
- **Machine Learning to Predict Future Educational Outcomes in Critically Ill Children.** After successfully linking PICU admission data of the past 20 years with standardised school testing and administrative databases, this study uses machine learning techniques to build and test a predictive model to identify, at time of discharge, children at risk of poor educational outcomes. We will explore the integration of this approach with prospective clinical data, providing urgently needed evidence to guide families, practitioners, and researchers. Funding: Children's Hospital Foundation.
- **Building Together: Better Consenting Practices for the Most Vulnerable in Healthcare Research.** This study aims to enhance our understanding of delayed consent from a broad range of stakeholders. This improved understanding will lead to targeted resources for patients, families, carers, clinicians, researchers, and ethics committee members, in turn increasing the number of treatments under investigation to improve outcomes for critically unwell patients. Funding: Metro South Research Support Scheme.
- **Adaptive Clinical Trials in Paediatric Critical Care.** Only 3% of randomised controlled trials conducted within PICUs have incorporated adaptive trial designs, yet they are shown to improve efficiency, are often more cost-effective and can result in recruitment of fewer patients. This project aims to use surveys and interviews of PICU trialists to identify barriers and facilitators in incorporating adaptive designs, and to demonstrate the influence that Bayesian adaptive designs may have had on trial efficiency and study results. Supported by: AusTriM Visiting Fellowship.

Paediatric Nursing and Patient Safety

Lead Researcher: Professor Amanda Ullman



The research program of the **Paediatric Nursing and Patient Safety Research Group** aims to eliminate healthcare-associated injuries, such as central line-associated bloodstream infection, thrombosis, extravasation injuries and medication error, for children. We are achieving this aim by informing everyday clinical practices with innovation and high-quality research trial

data, then sustainably and effectively implementing evidence-based care into practice across Australian and international paediatric healthcare.

Our team also supports the development of research capacity across Children's Health Queensland, particularly within nursing via mentorship, higher degree research training, and collaborative networks.

Key Projects:

- **Preventing adverse events during paediatric cancer treatment: A multi-site hybrid randomised controlled trial of catheter lock solutions (The CLOCK trial).** Across Australia every year, children undergoing treatment for cancer experience more than 250 bloodstream infections, 70 deep vein thromboses and 300 blockages – all caused from their central line. This central venous access device (CVAD) is vital as it administers treatments, such as chemotherapy drugs and supportive therapies including blood transfusions and antibiotics. When the CVAD is not in use, it is locked it with fluid, which is an opportunity to prevent CVAD-associated complications. Funded by Cancer Council Queensland and the NHMRC, in this world-first Type 1 hybrid, effectiveness-implementation RCT, the research team will evaluate the effectiveness of the CVAD lock solution compared to usual care to reduce infections, thromboses and blockages for children being treated for cancer, and is under way in Queensland, Victoria, New South Wales and New Zealand.
- **Preventing InfusAte injuries Throughout a Child's Hospitalisation (PATCH): A Type 1 Hybrid Randomised Controlled Trial.** Over 180,000 infants (<1 year of age) are admitted to Australian hospitals annually, with ~60% requiring an IV during their stay, and our studies have shown 33-45% of these IVs fail prior to treatment completion. This is commonly caused by damage to the vein where the IV is placed, resulting in the infusate fluid pooling in the tissue, rather than being administered into the bloodstream. A potential solution to improve the detection of extravasations is an IV biosensor, which continuously monitors the optical properties of tissue near the IV site and provides audible and visual alarms when tissue fluid volume changes. Funded by an MRFF Clinician Researcher Grant, we are undertaking a multi-site, superiority Type-1 hybrid randomised controlled trial (RCT), testing the effectiveness, and exploring the value and implementation contexts, of an IV biosensor, compared to standard care, to detect extravasations and prevent extravasation injury. It is currently underway across Queensland Children's Hospital, Royal Brisbane and Women's Hospital and Sunshine Coast University Hospital.
- **Eliminating harm from devices across the life span in critical illness: The DEFENCE study.** One in ten patients admitted to intensive care develops a pressure injury caused by a therapeutic device. Funded by an NHMRC Partnership Grant, and working with clinical partners (five major hospitals in Queensland – Mater Mothers'; Queensland Children's; Royal Brisbane and Women's; The Prince Charles; and Townsville University hospitals) and policy partners (Australian Commission on Safety and Quality in Healthcare; Clinical Excellence Queensland), this project will co-design implementation strategies and then test the DEFENCE bundle in the Intensive Care Unit to prevent device-related pressure injuries across the lifespan.
- **Peripherally inserted central catheter Innovation to reduce Infections and Clots: the PICNIC trial.** Peripherally inserted central catheters (PICCs) are used across healthcare, however, they are associated with serious complications, such as infections and blood clots. Innovations in PICC materials, such as the incorporation of hydrophobic and anti-infective coatings, provide an opportunity to prevent these complications, but their effectiveness is unclear. Funded by the NHMRC, the PICNIC trial is a multi-centre, superiority randomised controlled trial (RCT) that will evaluate the effectiveness of two innovative PICC materials and design to prevent PICC failure across south-east Queensland adult and paediatric hospitals.
- **Pay Attention to Ward Sounds: Clinical alarm safety in a regional hospital's general acute-care paediatric ward.** Alarms are a part of healthcare, alerting clinicians to when physiological, equipment or some other variable exceeds a previously determined threshold. Alarm fatigue occurs when clinicians experience sensory overload due to excessive alarm signals, which can result in missed alarms or delayed response times, ultimately negatively affecting patient safety. Funded by the Sunshine Coast Wish List, this study aims to improve patient safety and the experiences of children and their families when receiving care within a general acute-care paediatric ward setting by optimising clinical alarm signal management.

CHRC Research Facilities and Services

Queensland Children's Tumour Bank (QCTB)

The Queensland Children's Tumour Bank (QCTB) is an openly accessible paediatric tumour tissue bank. The facility assists as many quality scientific projects as possible, both large and small, to increase knowledge about childhood cancer and improve outcomes for patients. The bank is located in the Centre for Children's Health Research building, adjacent to the Queensland Children's Hospital. This close proximity to the QCH operating theatres and Queensland Health Pathology, enables samples to be obtained rapidly after surgery.

The QCTB has close ties with other tumour and tissue banks through the Australian and New Zealand Children's Haematology Oncology Group Biobanking Network and is a member of the Brain Cancer Biobanking Australia consortium. Our work is made possible through the support from the Children's Hospital Foundation Queensland. We collect material from all types of solid tumours, as well as "liquid tumours", such as leukaemia. In addition to traditional ways of storing tissue, such as snap-freezing, we specialise in the long-term banking of live tumour cells. We currently have specimens available (in a range of formats) from hundreds of paediatric patients with a diverse range of cancer types (such as leukaemia, lymphoma and solid tumours from a range of organs).

Any not-for-profit academic investigators, local or international, who wish to use these samples to advance an oncology research project are welcome to apply for specimens. Tumour samples are provided free of charge and, whenever possible, in an ongoing collaborative basis. Although samples are provided freely, researchers are required to pay for sample shipping to their laboratory. We currently have collaborations underway with cancer research teams around Australia, as well as in Canada, the USA, UK, Germany and The Netherlands.



For more information, please contact the QCTB at: tumourbank@uq.edu.au.

Associate Professor Andrew Moore is the Director of the Queensland Children's Tumour Bank.

CCHR Clinical Research Floor, including the Queensland Children's Motion Analysis Service

The Clinical Research Floor of the Centre for Children's Health Research is a world-class facility designed for the clinical assessment of children for research purposes.

The Clinical Floor features:

- Multiple wet and dry assessment rooms
- Counselling and assessment Rooms
- Processing rooms
- A child play therapy room
- A sibling minding facility equipped with toys and cable television
- State-of-the-art observation rooms with a B-Line video system to capture footage of research participants
- A group interview room
- Multiple project rooms
- A domestic activities room
- A large group assessment room
- A small assessment room
- An occupational therapy room
- In addition, the floor houses the Queensland Children's Motion Analysis Service.

The Queensland Children's Motion Analysis Service (QCMAS) provides walking and energy assessments to children and young people to improve their walking to reduce pain and increase efficiency. This service is for children and young people living in Queensland and northern New South Wales. It provides services to children and young people with:

- Cerebral palsy
- Spina bifida
- Brain injuries
- Spinal cord injury or disease
- Amputations and limb differences.

CCHR Laboratory

Our laboratories are shared between researchers from Queensland University of Technology, Children's Health Queensland and The University of Queensland.

The laboratories are Physical Containment Level 2 (PC2)-certified, and contain National Association of Testing Authorities (NATA)-accredited facilities.

They contain both general laboratory space, as well as:

- Specialised areas designated for cloning and bacterial work
- Both clean and experimental tissue culture rooms
- A brownout room used for microscopy
- A unidirectional workflow nucleic acid extraction and amplification area
- A 4°C cold-room
- Several spaces for general instrumentation and storage

The lab houses state-of-the-art equipment, including high-throughput and automated workstations, and are primarily used by our burns, respiratory, allergy and infectious diseases groups. Two additional cold storage areas within the building are also used by the research groups and include -80°C and -20°C freezers.

Australian Central Over-Reading Centre

Professor Paul Robinson, Dr Tamara Blake and Miss Kathleena Condon of Children's Health and Environment Program (CHEP) were instrumental in the successful transition of Central Over-Reading Centre (CORC) facilities to The University of Queensland for implementation and delivery of sensitive peripheral airway function tests within National and International Clinical Trials.

The Australian Central Over-Reading Centre (CORC), established in 2015, specialises in the training and support of operators who perform Multiple Breath Washout (MBW) and oscillometry testing as part of clinical trials and investigator-led studies. The program is also able to provide over-reading services for collected data if required. Training sessions can be completed in-person or by virtual training workshops. Our accreditation program has been developed to adhere to current international guidelines and recommendations.

child-health-research.centre.uq.edu.au/research/australian-central-over-reading-centre

KidStim lab

The KidStim lab is the first lab in Australia to explore non-invasive brain stimulation (NIBS) in children with brain injury. It opens up an exciting new chapter in treatments for children with persistent problems after a brain injury, as well as children with mood and behavioural problems. NIBS can be used to investigate and treat persistent symptoms following a concussion:

- Traumatic Brain Injury
- Stroke
- Depression and mood problems
- Anxiety
- Autism

Other associated groups:

Queensland Paediatric Infectious Diseases (QPID) Research Group

The Queensland Paediatric Infectious Diseases (QPID) Research Group is a multi-disciplinary translational group working collaboratively to improve the outcomes of children with infectious conditions. Hosted at the University of Queensland Centre for Clinical Research (UQCCR), the group includes clinicians and researchers from UQ, Queensland Children's Hospital, Queensland University of Technology (QUT) and Griffith University.

Researchers from this group collaborate on and lead multi-centre studies of childhood infections, including important national surveillance studies as part of the Paediatric Active Enhanced Disease Surveillance network.

The QPID Research Group encompasses:

1. **The Queensland Paediatric Infectious Diseases (QPID) laboratory:** A National Association of Testing Authorities accredited laboratory with an established track record of innovation in translational diagnostics research
2. **Infectious disease surveillance:** A team of researchers engaged in collaborative state-wide and national studies of important and emerging infectious conditions. This includes the Paediatric Active Enhanced Disease Surveillance group which is a unique national collaboration providing epidemiological data on conditions of public health importance in Australian children.
3. **Clinician researchers:** a multi-disciplinary team of doctors, nurses, pharmacists, and allied health professionals perform translational clinical research aimed at optimising the diagnosis and management of serious infections in children.
4. **Immunisations research:** collaborative research encompassing vaccine trials, and health services research intended to reduce the burden of infectious conditions in Queensland children.

Children's Burns and Trauma Research Group

The **Children's Burns and Trauma Research Group** was established in 1999 by burns surgeon, Professor Roy Kimble, and is now part of the UQ Child Health Research Centre. Our goal is to prevent children from sustaining traumatic injuries such as burns and to provide the best evidence-base for their treatment.

The research aims to:

- Identify ways to decrease the number of children with burns and traumatic injuries, and to implement these changes;
- Provide scientific evidence for existing treatments and develop novel wound healing treatments for better care of children suffering from burns; and
- Improve the lives of all children suffering from burns or trauma.



CHRC Outreach and Impact

CHRC's mission includes enabling the best health and wellbeing for all children, adolescent and their families. This is highlighted by some of the outreach activities below, as well as the recognition of the impact CHRC researchers and their collaborators are making.

First Cerebral Palsy Register set up on Tanna Island in Vanuatu

Dr Andrea Burgess of the Queensland Cerebral Palsy Rehabilitation and Research Centre (QCPRRC) has teamed up with Vanuatu healthcare workers to establish a registry for children with cerebral palsy that live on the island of Tanna. The registry will help address the additional difficulties faced by those suffering from cerebral palsy in remote areas. This story was broadcast on ABC Radio Pacific Beat on 27 November 2023 ([abc.net.au/pacific/programs/pacificbeat/cerebral-palsy-register-established-in-vanuatu/103153670](https://www.abc.net.au/pacific/programs/pacificbeat/cerebral-palsy-register-established-in-vanuatu/103153670)) and published by the ABC News on 30 November 2023 ([abc.net.au/news/2023-11-30/cerebral-palsy-register-tanna-vanuatu-helps-meet-needs/103141826](https://www.abc.net.au/news/2023-11-30/cerebral-palsy-register-tanna-vanuatu-helps-meet-needs/103141826)).



Dr Andrea Burgess on Tanna Island, Vanuatu, with one of the more than 60 children that have been added to the cerebral palsy register.

Associate Professor Kristen Gibbons awarded the 2023 Faculty of Medicine Leader of the Future (Academic) Award

ChIRP's Group Leader, **Associate Professor Kristen Gibbons**, was awarded the Leader of the Future (Academic) Award by the Faculty of Medicine. This award recognises an academic that "displays the qualities of a great future leader and who leads and inspire others to strive for excellence". Only six years post-PhD, Associate Professor Kristen Gibbons is a highly sought-after Biostatistician and Clinical Triallist. Her burgeoning research program focusses on enhancing clinical trial methodologies, development of prediction models, and machine learning for clinical decision-making tools. Her research is making a tangible impact on health outcomes and is of global significance.

Since commencing at UQ in 2020, Kristen has developed extensive national and international networks, and has grown her team from two full-time equivalent (FTE) staff (data management only) to an eight-FTE multidisciplinary team. Kristen demonstrates excellence in research quality and impact, with more than 160 publications (including two recent publications in the prestigious *Journal of the American Medical Association*) and being Chief Investigator on highly competitive national grants, including MRFF and NHMRC Clinical Trials and Cohort Studies grants. Kristen was recently awarded an NHMRC Emerging Leadership Fellowship (2024-2029) and was elected Vice-Chair of the Australian and New Zealand Intensive Care Society Paediatric Study Group (ANZICS PSG) - the first non-clinician to ever hold a position on the Executive Committee.



Executive Dean, Faculty of Medicine, Professor Geoff McColl presents Associate Professor Kristen Gibbons with the 2023 Faculty of Medicine Leader of the Future (Academic) Award at the Faculty of Medicine Excellence Awards.

2023 Soirée For A Cure supports Professor Di Yu

The 2023 Soirée For A Cure was held on the 4th of February and supported Professor Di Yu's ground-breaking research into using immunotherapy to cure children's cancer. Soirée For A Cure, which proudly supports Tour de Cure, is Brisbane's premier gala fundraiser for children's cancer projects. **Professor Di Yu** was awarded funding for the project "Investigating the quantity and quality of T cells in paediatric solid tumours". Professor Di Yu is Director of the Ian Frazer Centre for Children's Immunotherapy Research, and Professor of Immunology at the University of Queensland Frazer Institute. The Ian Frazer Centre for Children's Immunotherapy Research is the first dedicated children's immunotherapy research centre in Australia and was established in August 2022 thanks to funding from the Children's Hospital Foundation.



From left: Associate Professor Wayne Nicholls, Director of Oncology, Queensland Children's Hospital, and Asha Morris, cancer survivor, at the 2023 Soirée For A Cure event with recipient, Professor Di Yu.

Prenatal alcohol exposure and FASD

Dr Natasha Reid, appeared on the Insight webinar series, giving the presentation "Prenatal alcohol exposure and FASD", 19 April 2023 (insight.qld.edu.au/training/Prenatal-alcohol-exposure-and-FASD/detail). The presentation explored how to identify FASD, the impacts on functioning and tips for adapting treatment and increasing service accessibility.

Dr Natasha Reid also contributed to an on-demand webinar for the Royal Australian College of General Practitioners (racgp.org.au/racgp-digital-events-calendar/online-event-items/on-demand/the-moments-you-spend-with-her-matter-supporting-w). The webinar provided evidence about the risks of drinking alcohol during pregnancy, the effects of prenatal alcohol exposure and provided insight into the impact of Fetal Alcohol Spectrum Disorder (FASD) on people's lives.

Members of the **Fetal Alcohol Spectrum Disorder Research Collaboration (FASD)** participated in interviews with ABC's Background Briefing for their three-part series, "The outland or the cage", the first episode of which was broadcast on 22 July 2023 (abc.net.au/listen/programs/backgroundbriefing/episodes). This series explored the youth justice system in Queensland, the jurisdiction with the second-highest rate of youth detention in Australia.

Ms Nicole Hewlett authored an article in Croakey Health Media, "After the referendum, moving beyond hurt and anger towards collective action", published on 25 October 2023 (croakey.org/after-the-referendum-moving-beyond-hurt-and-anger-towards-collective-action/).

Australia Department of Health and Aging sponsored report on the early detection of disability in young children

QCPRRC members, **Professor Roslyn Boyd, Dr Andrea Burgess and Mrs Carly Luke**, in collaboration with the Institute for Social Science Research, The University of Queensland, conducted a systematic review in a study funded by the Australia Department of Health and Aging. The study provided evidence-based recommendations for the early detection of disability and developmental concerns in young children, and culminated in the report "Scoping and gap analysis of tools, resources and training for primary health care professionals, and tools and resources for parents and carers, on early detection of disability or developmental concerns in young children". The report was tailored to provide tool and approaches that could be used by general practitioners, nurses and midwives, allied health professionals and Aboriginal and Torres Strait Islander health workers in the primary healthcare setting.

ChIRP were finalists, Collaborators of the Year, UQ Faculty of Medicine

Children's Intensive Care Research Program (ChIRP) received a commendation in the Collaborators of the Year Award category for their prioritising of local, national and international collaborations to improve the outcomes for the most critically ill children globally.



Associate Professor Kristen Gibbons (left) and Dr Anna MacDonald at the 2023 Faculty of Medicine Excellence Awards with the Collaborators of the Year commendation awarded to ChIRP.

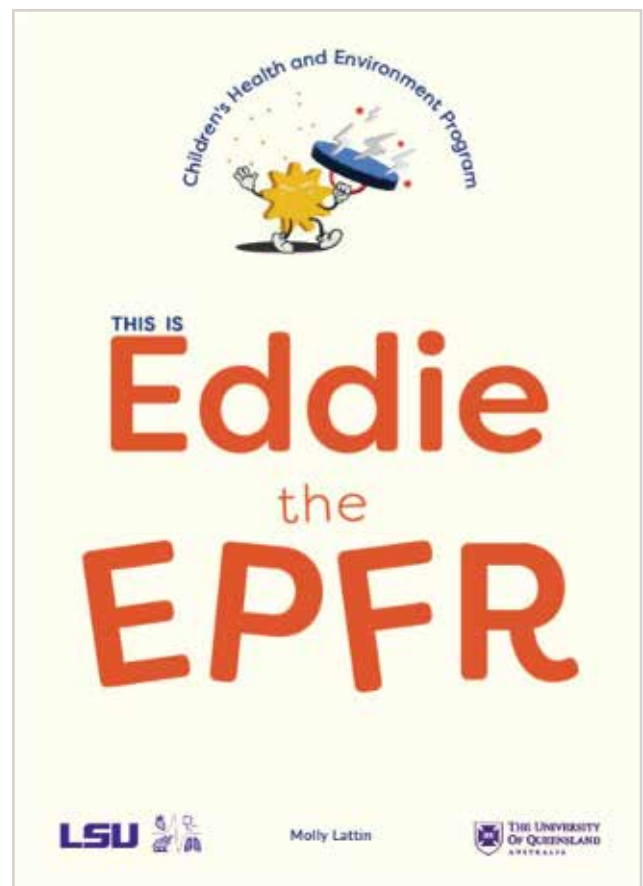
Changing mindsets about Down Syndrome and sleep disorders

Associate Professor Jasneek Chawla of the Kids Sleep Research group was featured in an article in Children's Health Queensland Research Impact Report 2022-

23. The article highlighted that children with Down Syndrome are six times more likely to be at risk of having sleep-disordered breathing. The research of the Kids Sleep group revealed a shortcoming in the understanding among healthcare providers that the sleeping disorders of children with Down Syndrome was modifiable, and that families and carers of children with Down Syndrome who accessed treatment for sleep disability may greatly benefit from an improved quality of life.

CHRC and Louisiana State University Produce a Children's Educational Resource Discussing Environmentally Persistent Free Radicals, and why they are bad for our Health

Dr Dwan Vilcins, Dr Ayaho Yamamoto and Professor Paul Robinson of the Children's Health and Environment Program (CHEP) were invited lecturers at Louisiana State University (LSU) Superfund Research Program presentation, An Open Forum on Environmentally Persistent Free Radicals and Human Health (lsu.edu/srp/news/2023/srp_open_forum.php). An output of the LSU Superfund Research Program was a children's educational resource discussing environmentally persistent free radicals and why they are bad for our health, titled This is Eddie the EPFR. **Professor Peter Sly, Dr Stephania Cormier, Dr Dwan Vilcins, Dr Ayaho Yamamoto and Ms Wen Ray Lee** of Children's Health and Environment Program (CHEP) were consultant academics and researchers on this book, a copy can be viewed here: play.google.com/store/books/details/MollyLattin_Eddie_the_EPFR?id=sv7gEAAAQBAJ



Child and Youth Mental Health Research Group and the Australian Child Maltreatment Study

The Australian Child Maltreatment Study (ACMS) was published in April 2023 as a [report](#) and as a special supplement of the [Medical Journal of Australia](#). **Professor James Scott**, head of the Child and Youth Mental Health Research Group, played an instrumental role in the ACMS, and was co-author of the report and all of the supporting peer-reviewed articles and editorials that comprised the special supplement in the *Medical Journal of Australia*.

This landmark study identified, for the first time, how many Australians experienced the five types of child maltreatment (physical abuse, sexual abuse, emotional abuse, neglect, and exposure to domestic violence), and estimated the impacts on health outcomes over the life course and the associated cost to society. The ACMS has for the first time provided comprehensive information about child maltreatment, and these findings have already had a wide-ranging impact on practice and policy.

ChIRP Conducts International Clinical Trial Methodology Workshops

In the latter part of 2023, ChIRP delivered researcher development workshops to international collaborators in Brazil and India. The first series of workshops were four online Clinical Trial Methodology Workshops conducted in October and November 2023 as an initiative between UQ and Instituto Latino Americano de Sepse (ILAS), funded by the Council on Australia Latin America Relations (COALAR). These workshops were delivered online by **Associate Professor Kristen Gibbons, Professor Luregn Schlapbach, Dr Sainath Raman, Associate Professor Debbie Long and Ms Kerry Johnson**, and covered the topics: Developing the research questions, aims, and objectives; Recruitment, Consent and Data Collection; Methods and Operations; and Case Study - RESPOND Paediatric Sepsis Trial. These sessions had approximately 70 live attendees with an additional 358 registered to receive the session recordings.

The second series was in India and involved **Dr Sainath Raman** presenting to paediatric critical care trainees at St. John's Medical College Hospital, Bengaluru, Karnataka, India, on Paediatric Sepsis, 28 November 2023. This was followed by two Clinical Research Methodology Workshops at the Post Graduate Institute of Medical Education & Research (PGIMER), Chandigarh, and at the 2023 Pedicriticon National Congress. These were presented by **Associate Professor Kristen Gibbons, Dr Sainath Raman**, and Indian colleagues, and were made possible with support from the Australia India Institute with funds provided by the Australian Government Department of Education. Topics of the workshops included: Introduction to Clinical Research - PICO (population, intervention, control, and outcomes), Study Designs; Literature reviews; Introduction to protocols; Surveys; Observational studies; Statistics; Clinical trials; How to write a protocol; and Mentored research proposal development.

As a global leader in paediatric intensive care unit (PICU) research, ChIRP is a driving force behind initiatives to build clinical trial capacity in lower-resourced settings. Federal government funding has enabled UQ-led workshops engaging >200 clinicians and researchers across India and South America. So far, six Brazilian and

three Indian PICUs have obtained ethical approval to recruit for UQ-led clinical trials. Furthermore, ChIRP has been invited to represent on international consortiums for sepsis guideline development and global clinical trial collaborations.



Associate Professor Kristen Gibbons (above) and Dr Sainath Raman (below) presenting at Pedicriticon 2023 Pre-Conference Clinical Research Workshop, Pune, India.



Associate Professor Kristen Gibbons (left), Dr Sainath Raman (second from left), and some of the Faculty and attendees of the Pedicriticon 2023 Pre-Conference Clinical Research Workshop.



Associate Professor Kristen Gibbons (left) presenting Professor Jayashree Muralidharan with a Certificate of Acknowledgement for her role as the Indian co-lead of the Clinical Research Workshop.



Associate Professor Kristen Gibbons and Dr Sainath Raman at the Pedicriticon 2023 Pre-Conference Clinical Research Workshop.

MED-Kids researcher Dr Karissa Ludwig wins Emerging Investigator Award at ANZSPED 2023

Dr Karissa Ludwig of the Children’s Musculoskeletal, Endocrine and Diabetes Research Group was awarded the Emerging Investigator Award at the 2023 Annual Scientific Meeting of the Australia and New Zealand Society for Paediatric Endocrinology and Diabetes (ANZSPED). ANZSPED is the premier professional body representing paediatric endocrinology in Australasia. Dr Karissa Ludwig received the award for her project “RNA Sequencing of Urine-Derived Cells for the Characterization and Diagnosis of Primary Bone Disorders”.



Dr Karissa Ludwig, with the ANZSPED Emerging Investigator Award, and Professor Craig Munns at the ANZSPED 2023 Annual Scientific Meeting at Cape Schanck, Victoria.

Training the Next Generation of Clinician Researchers – the Clinician Researcher Development Program

2023 saw the second year of the highly successful Clinician Researcher Development Program. The brainchild of Professor Karen Barlow, the program aims to foster the development of clinician researchers embarking upon research careers through a facilitated and applied process of clinical research training, research project development, and mentorship.

The program is aimed at health professionals from a range of clinical disciplines, including biomedical, medical, nursing, allied health, health science and social science clinicians, interested in undertaking clinical research, or who have recently started their first research project. A joint initiative of the Child Health Research Centre, and Children’s Health Queensland (CHQ), the program consists of small classes held in five half-day sessions, regular “lunch ‘n’ learn” networking sessions and facilitated online learning sessions throughout the year, culminating in the clinician researchers presenting their findings and conclusions to their cohort.

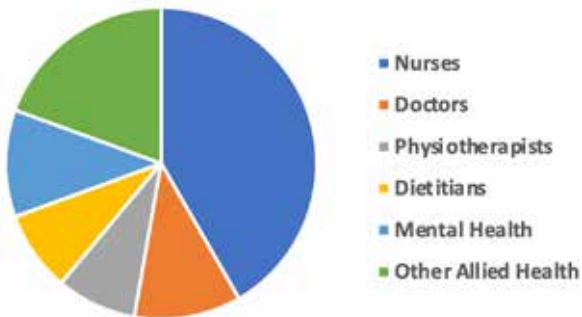
Clinicians can identify their own mentor, or the program can help identify mentors from existing mid- and senior-career researchers across the Children’s Health Queensland Hospital and Health Service (CHQHHS) and Centre for Children’s Health Research (CCHR) precinct.

This year, 14 clinician researchers across nursing, social work, psychology and oncology disciplines won places in the program. The feedback from participants and mentors was extremely positive, with most participants reporting an increasing in confidence post-program about various aspects of conducting research.

Examples of projects from 2023 included:

- Is bone marrow aspirate and trephine (BMAT) required in the staging/workup for children and young adults with sarcoma?
- Engaging Consumers and Health Professionals in a quality improvement project to explore post sepsis services and supports for families (surviving and bereaved).
- How effective is child protection risk screening tools in Emergency Departments - are children safer?
- Developing an international survey of practice regarding antimicrobial treatment of drug-resistant gram-negative infections in paediatric patients.
- “Bridging the Heart Gap” a telehealth pilot project in paediatric cardiac surgery in Queensland.
- Development of competencies for health professionals for paediatric parenteral nutrition ordering.

CRDP 2022-23 participants



CHRC Researchers at National and International Meetings

Below are some snapshots of CHRC researchers and colleagues at conferences around the country and overseas.



From left to right: Dr Raewyn Mutch (Perth Children's Hospital), Dr Natasha Reid, Dr Robyn Williams (Curtin University) and Ms Nicole Hewlett (CHRC PhD student) presenting an invited session at the 2023 Neurodevelopmental & Behavioural Paediatric Society of Australasia (NBPSA) Annual Conference in Darwin.

Inaugural Australian Congenital Hyperinsulinism Family Meeting was held in Brisbane

The inaugural Australian Congenital Hyperinsulinism Family Meeting day was held in Brisbane, August 4-6, 2023. Associate Louise Conwell assisted in the planning. There were 76 registrants from all around Australia. The Hyperinsulinism (HI) families were ecstatic to be able to share and support each other. The children had a great time playing while parents and adults with HI learned about aspects of the condition from the expert medical staff at Queensland Children's Hospital. HI families also learned about global advocacy initiatives and had an opportunity to have important discussions and to learn about clinical research. Presentations covered topics like surgery, diagnosis, clinical research, and more. **Associate Professor Louise Conwell, Professor Craig Munns and Professor Craig McBride** all contributed as presenters and panel members.



From left to right: Jennifer Schmidt (Congenital Hyperinsulinism International Chief Operating Officer), Associate Professor Louise Conwell, Julie Raskin (Congenital Hyperinsulinism Chief Executive Officer) at the Australian Congenital Hyperinsulinism Family Meeting.



From left to right: Professor Craig McBride and Associate Professor Louise Conwell at the Australian Congenital Hyperinsulinism Family Meeting.

The Inaugural Australian Paediatric Immunotherapy Conference supported by the Children's Hospital Foundation

Professor Di Yu and other members of the Ian Frazer Centre for Children's Immunotherapy Research (IFCCIR) organised and hosted the inaugural Australian Paediatric Immunotherapy Conference (APIC), held at the Brisbane Convention and Exhibition Centre and the Emporium Hotel South Bank, April 28-29, 2023. The aim of this event was to build the profile of the Centre, and provide

an opportunity for clinicians, scientists, EMCRS, HDR students, and industry partners with an interest in Paediatric Immunotherapy research to share knowledge and make connections. Made possible by generous support from the Children's Hospital Foundation, the conference was a catalyst for the initiation of new national and local collaborations with over 70 delegates in attendance.



Professor Di Yu addressing attendees at the Australian Paediatric Immunotherapy Conference at South Brisbane.



Australian Paediatric Immunotherapy Conference attendees at the Emporium Hotel South Bank



The Emporium Hotel South Bank was the venue for the second day of the inaugural Australian Paediatric Immunotherapy Conference.



Recipients of the Ian Frazer Centre Travel Scholarship with Professor Di Yu. From left to right: Dr Francois Rwandamuriye (Telethon Kids Institute), Ms Jourdin Rouaen (Children's Cancer Institute/UNSW), Dr Deborah Meyran (PeterMac Callum Cancer Centre), Ms Josephine Owen (Hudson Institute of Medical Research/Monash University), and Dr Kriti Joshi (CHRC and Queensland Children's Hospital). These recipients had their abstracts selected from among other new investigators for oral presentations at the Australian Paediatric Immunotherapy Conference.

ChIRP Researchers Present at Pedicriticon 2023 in India



Associate Professor Kristen Gibbons presented at Pedicriticon 2023, 25th National Conference of IAP Intensive Care Chapter, in Pune, India, December 2023.



CHRC Events

As with previous years, there were numerous well-attended workshops and training sessions were conducted by CHRC researchers. 2023 events also included a visit by the Directorate to the Centre's most distant research group in Rockhampton, CHRC researchers advocating for children with disabilities at an event at Parliament House, Canberra, and an event for children with disabilities and their families at the Children's Hospital Queensland.

Workshops and Training conducted by QCPRRC

The Australasian Cerebral Palsy Clinical Trials Network (AusCP-CTN) Centre of Research Excellence Annual Systematic Review Workshop was conducted online, and featured eight half-day sessions over a nine-week period in February and March, 2023. This popular and well-subscribed workshop featured QCPRRC members, **Professor Roslyn Boyd, Associate Professor Leanne Sakzewski and Dr Andrea Burgess**, along with colleagues from the UQ Library, Monash University and Griffith University, presenting on: Introduction; Framing your question; PubMed, Cochrane; Confirming Review question/aims, Endnote, Measuring Quality for Reporting; PEDro, Web of Science, Database search (PROSPERO, PRISMA, CINAHL, EMBASE); Biostatistics pt. 1 (measures of reproducibility, COSMIN II); Biostatistics pt. 2 (RCTs, statistical inference, continuous outcomes & binary outcomes); Meta analysis; and Clinical Practice Guidelines; Getting published. An additional feature of the workshop was a one-day GRADE (Grading of Recommendations Assessment, Development and Evaluation) Analysis workshop for systematic review authors and others. More than 90 participants from across Australia and five other countries (USA, Italy, Türkiye, Georgia, Sri Lanka) participated in 2023.



Members of the QCPRRC outside the Centre for Children's Health Research, home to the CHRC.

Dr Gaela Kilgour was lead for the **Global 24 hour Listening and Sharing Session** run by the International Alliance of Academies of Childhood Disability (IAACD; a body with representatives from more than 30 countries). The 2023 theme was "What adults with disabilities tell us about their childhood?". Dr Gaela Kilgour is also lead for Pacific Engagement for the Australasian Academy of Cerebral Palsy and Developmental Medicine (AusACPDM).

QCPRRC members of the QEDIN Network (QLD Early Detection and Early Intervention Network) and International General Movements Trust tutor, **Professor Andrea Guzzetta** from the University of Pisa, conducted a one-day training session on the Hammersmith Infant Neurological Examination (HINE) and the Hammersmith Neonatal Neurological Examination (HNNE) in March 2023. These assessments are recommended by The International Clinical Practice Guideline for the Early Accurate Diagnosis of Cerebral Palsy. A growing number of studies on high-risk newborns have shown that these assessments can be used in the early identification of infants at high chance of cerebral palsy. These training sessions are a part of the QCPRRC's commitment to providing educational training for clinicians to enable the early detection and assessment of children with cerebral palsy, and is supported by Advancing Cerebral Palsy in Queensland project (funded by Advancing Queensland Innovation Program) and Australasian Cerebral Palsy Clinical Trials Network (AusCP-CTN), Centre for Research Excellence (that is funded by the NHMRC). HINE training workshops (half and full day) have been conducted during 2023 across QLD and the Northern Territory by our HINE trainers, Carly Luke and Anya Gordon.

Trip to the Tropic of Capricorn

CHRC Director, **Professor Craig Munns**, and Research Development Manager, **Dr Diane Maresco-Pennisi**, visited Rockhampton to meet with **Associate Professor Gulam Khandaker** and members of the Applied Public Health Research Group. While in Rockhampton, **Professor Craig Munns** and **Dr Diane Maresco-Pennisi** met with **Dr Emma McCahon**, Central Queensland Health Service Chief Executive, and other collaborators to discuss various strategic initiatives.



From left to right: Associate Professor Gulam Khandaker, Professor Craig Munns, Dr Diane Maresco-Pennisi, and Associate Professor Sunday Pam, Head, Rockhampton Regional Clinical Unit Medical School (RCS).

Queensland Children's Hospital Paediatric Endocrine Education Event

A Department of Endocrinology and Diabetes, Queensland Children's Hospital Paediatric Endocrine Education Event was Chaired by **Associate Professor Louise Conwell**: 'A review of clinical management, collaborations and novel therapies.' There were

approximately 40 attendees representing multiple medical disciplines (endocrinology, metabolic, surgery, genetics, neonatology), nursing and allied (pharmacy, nursing, dietetics), Congenital Hyperinsulinism International Chief Executive Officer (Julie Raskin) and Chief Operating Officer and Industry (Rezolute). There were additional medical and allied health virtual attendees from around Australia. The agenda included a discussion of illustrative patient cases, Julie Raskin provided a parent's perspective in addition to outlining some of the activities of the US-based globally focused not for profit organisation (Global Registry and Collaborative Research Network). Associate Professor Louise Conwell discussed treatments on the horizon.



Child UnLimited events in 2023

Child UnLimited is an Australian network of researchers, clinicians, advocates and families with a shared vision: to improve the clinical care and quality of life of children, adolescents and young adults living with a chronic illness or disability.

Child UnLimited Parliamentary Launch in Canberra

Professor Amanda Ullman represented CHRC within the consumer-group, Child UnLimited, and on 11th September was part of a Friends of Parliament Event in Canberra. This event was hosted by the Parliamentary Friends of Child and Adolescent Health; Dr Mike Freeland MP and Dr Monique Ryan MP, and brought together the network with members of parliament and the community to highlight the unmet needs of children with chronic illness and disability, with presentations by federal parliamentarians, young people and clinician researchers. Child UnLimited is campaigning for a productivity commission to explore where the current gaps and strengths can be better supported.



Dr Robyn Littlewood, Chief Executive, Health and Wellbeing Queensland, Professor Amanda Ullman, Julia Handley, Board Member, Child UnLimited, Associate Professor Jasneek Chawla, and Dr Michelle King, Board Member, Child UnLimited, at the event at Parliament House, Canberra.



Professor Amanda Ullman chairing a session at the Child UnLimited event at Parliament House, Canberra.

Child UnLimited’s 5th Annual Workshop at Queensland Children’s Hospital

The Child UnLimited’s Annual Workshop was held at Queensland Children’s Hospital for the first time.

Professor Amanda Ullman chaired one of the workshop sessions, and **Associate Professor Jasneek Chawla** gave a presentation entitled “Don’t forget to ask about sleep”.



Professor Amanda Ullman and colleagues at the Child UnLimited workshop at Queensland Children’s Hospital on 24 November 2023.

Families in Focus event at the Children’s Hospital Queensland

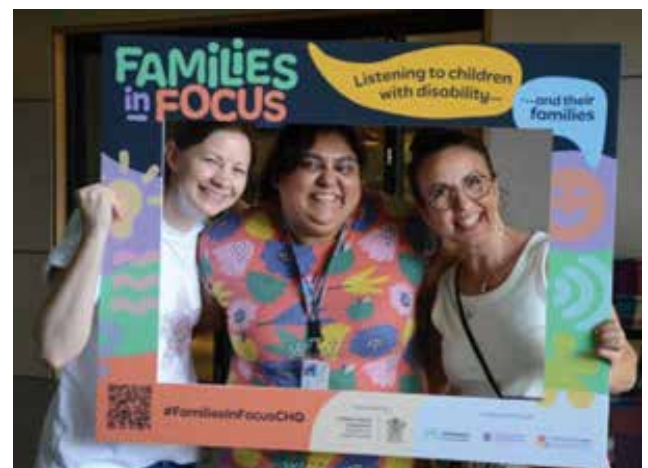
Dr Laetitia Cole, **Associate Professor Jasneek Chawla** and **Dr Emma Cooke** of the Kids Sleep Research Program and **Dr Sally Staton** were key participants in Families in Focus. An extension of one of their key research projects “embedding the voices of children with a disability and their families in research priorities”, the event involved interactive activities for children with a disability and their whole family, including parents, caregivers, and siblings.



Families in Focus, which was presented by Children’s Health Queensland in partnership with the Children’s Hospital Foundation and researchers from CHRC, was held in the performance space on level 2 of the Queensland Children’s Hospital on 23 and 24 October 2023.



Dr Emma Cooke and art facilitator with visitors at the event.



Dr Sally Staton, Associate Professor Jasneek Chawla and Dr Laetitia Cole.



Event visitor writing on the rainbow "one thing that would help create a brighter educational future for their child".

CHRC members at the 2023 Faculty of Medicine Excellence Awards



Professor Craig Munns and Associate Professor Kristen Gibbons at the 2023 Faculty of Medicine Excellence Awards.





Researchers in the news

CHRC researchers often appear in the news media, showcasing the research they are doing that is having a meaningful impact on the lives of children and their families, offering comment on newsworthy events, or providing expert opinion for background briefings. Here, are some examples of news articles from 2023.

Kids Sleep in the news

The Kids Sleep Research group featured in various media and podcasts, including **Associate Professor Jasneek Chawla** featuring on:

The ABC's Kids Listen program, Imagine This podcast on sleep, "Why do we have to sleep?", broadcast on 21 June 2023 (abc.net.au/kidslisten/programs/imagine-this/sleep/102402972). In this program, Associate Professor Jasneek Chawla explains to children and the host, Niraj Lal, what makes us sleep and why it is so important.

ABC news article, "Sleep study hopes to help families of children living with neurodisability", published on 19 June 2023 (abc.net.au/news/2023-06-19/neurodisability-children-sleep-study/102481898). The article featured a patient treated by **Associate Professor Jasneek Chawla**, and a study being conducted on a new sleep mat for the diagnosis of sleep-disordered breathing problems in children with neurodisability. Sonomedical Pty Ltd are a sponsor of the Sonomat study.

Associate Professor Jasneek Chawla also appeared on Channel 7 Morning Show media, "Sleep in Children", and Channel 10 Newsfirst media, "Sleep in Adolescents", on 23 November 2023.

Fetal Alcohol Spectrum Disorder Research Collaboration (FASD)

Ms Nicole Hewlett was featured in an article by the ABC, "Experts say earlier FASD diagnosis a key step in tackling Alice Springs youth crime wave" published on 4 February 2023 (abc.net.au/news/2023-02-04/fasd-fetal-alcohol-aboriginal-youth-crime-alice-springs/101854566). This article explored the link between the higher incidence of FASD among certain populations and highlights the lack of FASD care available to remote communities.

Endocrinology-Achondroplasia clinic opens at Queensland Children's Hospital.

Achondroplasia, a form of dwarfism caused by a genetic mutation, is the most common skeletal dysplasia. In addition to altered growth, children with achondroplasia may require additional medical, functional and psychosocial support. A new endocrinology-achondroplasia clinic opened at the Queensland Children's Hospital in July 2023 that features a multidisciplinary team, including endocrinologists, nurses and physiotherapists. The clinic provides an holistic service to the children and their families, and helps the children feel more confident and improves their mobility.

The clinic is also pioneering a study of vosoritide in children with achondroplasia to promote bone growth. It also teaches patients and families how to administer

vosoritide injections. Patients undergoing treatment with vosoritide may gain an extra 1.5cm in growth each year, and potentially an additional 15-20cm across their lifetime. In May 2023, vosoritide was listed on the Pharmaceutical Benefits Scheme for patients with achondroplasia whose growth plates are not yet closed.

Eight children have started treatment with vosoritide since the clinic opened. The pioneering work of the clinic and the vosoritide study, along with commentary from **Professor Craig Munns**, featured in an article published by the *Courier Mail*, "[Breakthrough Qld dwarfism treatment to add extra 20cm height](#)", published on 15 December 2023.



Clinical nurse, Elle Weston (left), 13-year-old Jacob Puchala, physiotherapist Emma Pendlebury and 8-year-old Ashton Tudman at the endocrinology-achondroplasia clinic at the Queensland Children's Hospital.



Jacob Puchala, one of the young people with achondroplasia seen at the Queensland Children's Hospital clinic, is able to administer daily vosoritide injections himself.

Children's Health and Environment Program (CHEP) in the news

Dr Dwan Vilcins discussed the impacts of air pollution, green space and the many other environmental factors that influence the health of children and populations in the UQ Faculty of Medicine Podcast series, Research Reimagined (medicine.uq.edu.au/blog/2023/11/episode-1-future-world's-children).

Dr Dwan Vilcins has also given media interviews discussing bushfire smoke projects with ABC Brisbane and Capricornia, 4RO, Triple M, Hit 105, and 4BC breakfast. These resulted in 13 media exposures with a reach of 4,622,860 people; given a public lecture at the Boonah Rotary Club; and established a collaboration with Cr Tozer at Gold Coast Council to act as community partner in the Bushfire Smoke Study.

Children's Health and Environment Program (CHEP)

featured in a Newswire - Experimental Biology and Medicine Press Release: *New Study in Experimental Biology and Medicine Highlights the Links Between Air Quality and COVID-19 Severity*. This highlighted a study that was published in *Experimental Biology and Medicine* (doi:10.1177/15353702221142616) on which **Dr Ayaho Yamamoto** was the first author. Other press releases featured CHEP members, **Dr Tamara Blake** and **Dr Dwan Vilcins** (UQ Faculty of Medicine press releases).

Acquired Brain Injury in Children (ABiC) group in the news

Professor Karen Barlow's group featured twice on 10 News in 2023. The first, on at-home concussion treatment, aired on 27 October 2023 (facebook.com/10NewsQLD/videos/982676542836263/) and the second, on unlocking the key to treating children with brain injuries by using imaging to predict how long, and if, a child will fully recover after a head knock, aired on 7 December 2023 (facebook.com/10NewsQLD/videos/744329660878887/). Both news stories featured the work of PhD student, **Ms Athena Stein**, and research conducted in CHRC's KidStim lab.

Trial to Prevent Complications for Children with Cancer

Professor Amanda Ullman and the **Paediatric Nursing and Patient Safety Group** were featured on Nine News and Triple M radio discussing a trial to prevent complications for kids with cancer (uq.edu.au/news/article/2023/08/trial-prevent-complications-children-cancer). Some of the complications of treatment for children with cancer are associated with the central venous access devices (CVADs) used for the delivery of chemotherapy drugs, and insertion of these devices carry a risk of blood infections and thromboses. The trial being conducted by the Paediatric Nursing and Patient Safety Group aims to prevent such complications by using a lock solution, tetrasodium EDTA, a calcium and iron chelator that makes it difficult for blood to clot and minimises growth of bacteria.



Image above left: Professor Amanda Ullman (seated) with trial participant, Harry, his parents, Christina and Tyson Dempsey and nurse practitioner, Tricia Kleidon, at the Child Health Research Centre.



Click [here](#) to watch the Channel Nine news clip.

Appendices

APPENDIX 1 RESEARCH GRANTS

Research Funding

Research Grant Funding awarded in 2023 where there was a Child Health Research Centre lead investigator totalled \$15,435,224. Child Health Research Centre investigators are indicated in bold.

Chief Investigators	Funding Body	Funding Scheme	Project	Dates	Total Grant Amount
Dr Koa Whittingham , Associate Professor Josephine Barbaro, Dr Jacqueline Barfoot , Professor Roslyn Boyd , Associate Professor Kristelle Hudry, Dr Syed Afroz Keramat , Dr Amy Mitchell, Professor Iona Novak, Dr Natasha Reid	MRFF	Clinician Researchers Initiative- 2022 Clinician Researchers: Nurses, Midwives and Allied Health Grant Opportunity – Stream 2	E-PACT: Randomised Trial of Parenting Acceptance and Commitment therapy for Parents of children with neurodevelopmental disabilities	Feb 2023 – Jan 2027	\$1,458,918.95
Dr Sarah Reedman , Dr Syed Afroz Keramat , Dr Ellen Armstrong , Dr Iain Dutia, Dr Matthew Ahmadi, Dr Tamara Blake , Dr Stina Oftedal , Dr Andrea Burgess , Associate Professor Leanne Sakzewski , Dr Dayna Pool	MRFF	2021 MRFF Early to Mid-Career Researchers	Running for Health: community-based adaptive exercise for cardiorespiratory health in young people with moderate to severe cerebral palsy	Apr 2023 – Mar 2025	\$768,886.64
Associate Professor Leanne Sakzewski , Dr Fiona Russo , Professor Roslyn Boyd , Dr Koa Whittingham , Dr Shaneen Leishman , Dr Andrea Burgess , Dr Katherine Benfer, Professor Zephania Tyack, Associate Professor Jodie Copley, Professor Robert Ware, Dr Sarah McIntyre	MRFF	2023 MRFF Consumer-Led Research	CP-KASP (Cerebral Palsy Knowledge, Advocacy Skills, and Support Program): co-designed with families to optimise evidence-based support through the NDIS.	Jan 2024 – Dec 2026	\$994,906.00
Dr Thuy Fraking , Dr Christopher Carty, Professor Michael David, Dr Belinda Schwerin, Dr Stephen So, Dr Kelly Weir	MRFF	Assessment of High-Cost Gene Treatments and Digital Health Interventions	External validation of a classifier for the detection of aspiration in children	Dec 2023 – May 2026	\$156,265.80
Professor Amanda Ullman , Dr Deanne August , Associate Professor Joshua Byrnes, Dr Roni Cole , Professor Fiona Coyer, Professor Martha Curley, Professor Mark Davies, Associate Professor Lauren Kearney, Professor Samantha Keogh, Ms Tricia Kleidon , Associate Professor Nicole Marsh, Associate Professor Craig McBride , Ms Mari Takashima , Professor Robert Ware, Dr Hui (Grace) Xu	MRFF	MRFF Clinician Researchers – Nurses, Midwives and Allied Health (Stream 1)	Building capacity to prevent healthcare harm for hospitalised infants: A Type 1 Hybrid Randomised Controlled Trial	Apr 2023 – Mar 2026	\$1,491,791.12
Associate Professor Jennifer Koplín , Dr Vanessa Clifford, Professor Lisa Amir, Professor Jane Fisher, Professor Kim Dalziel, Dr Sarah Price, Dr Anna Tottman, Associate Professor Alice Rumbold, Associate Professor Kirsten Perrett, Dr Laura Klein	NHMRC	NHMRC 2022 Partnership Projects PRC3	Pasteurised donor human milk supplementation for term babies	Feb 2024 – Jan 2028	\$1,126,309.40
Associate Professor Kristen Gibbons	NHMRC	Investigator Grant	Improving the lives of critically ill children through innovative trials of precision medicine	Jan 2024 – Dec 2028	\$1,586,190.00
Dr Dwan Vilcins , Dr Stephania Cormier, Dr Xianyu Wang, Professor Javaan Chahl, Dr Nina Lazarevic, Dr Brian Gullett	NHMRC	Ideas Grant	Providing evidence to guide public health messages during bushfire smoke events	2024 – 2026	\$1,270,101
Dr Miriam Cameron	NHMRC	NHMRC 2023 Postgraduate Scholarships	Aspiration and Respiratory Muscle Strength in Children	Jan 2024 – Dec 2026	\$128,982.00

Chief Investigators	Funding Body	Funding Scheme	Project	Dates	Total Grant Amount
Professor Peter Sly	National Institutes of Health, United States	Extension of LSU Superfund Research Center - (led by Louisiana State University)	Environmentally Persistent Free Radicals	Feb 2023 - Jan 2024	\$149,695
Professor Karen Barlow	Roche Industry sponsored study	CCTRND subcontract	A phase II, randomised, double-blind, placebo-controlled parallel group study to evaluate the safety, efficacy, and pharmacodynamics of 52 weeks of treatment with basmisanil in children with Dup15q syndrome	Apr 2023 - Mar 2025	\$97,426
Dr Dwan Vilcins	Thoracic Society ANZ	TSANZ Peter Phelan Paediatric Research Award	A pilot study to determine the impact of hazard reduction burns on indoor air quality and associated respiratory impacts for children	Mar 2023 - Dec 2024	\$25,000
Professor Di Yu, Associate Professor Wayne Nicholls, Dr Klevin Tuong	Tour de Cure 2023 (Administered by the Children's Hospital Foundation)	Senior Research Grant	Development of Personalised Cancer Vaccines for Sarcomas in Children	2024-2025	\$200,000
Professor Di Yu, Dr Joseph Yunis	Tour de Cure 2023 (Administered by the Children's Hospital Foundation)	Pioneering Research Grant	Synergising CD4 and CD8 T cell immunity in developing novel mRNA cancer vaccine	2024-2025	\$100,000
Dr Joseph Yunis, Dr Shook Fe Yap, Associate Professor Wayne Nicholls, Professor Di Yu, Dr Kelvin Tuong	TRI	TRI LINC	Towards a personalised T-cell vaccine for Ewing Sarcoma	2024-2025	\$50,000
Ms Elouise Comber	The University of Queensland	UQ Ventures Startup AdVentures	Pharmaceutical formulations - launching a new product to market	2024	\$6,000
Dr Ayaho Yamamoto	UQ CHRC	2023 CHRC Small Grants Award	Mechanisms by which environmentally persistent free radicals induce oxidative stress in the respiratory epithelium	2023	\$7,918
Dr Dwan Vilcins	UQ CHRC	EMCR Grant	Professional Development Award	2023	\$2,804
Dr Dwan Vilcins	UQ Faculty of Medicine	Early and Mid-Career Academic Consumer and Community Involvement (EMCR CCI) Kickstart Funding Scheme	Identify prenatal chemical exposures associated with ADHD/ASD	Aug 2023 - Dec 2023	\$500
Dr Grace Kirby	UQ Faculty of Medicine	Early and Mid-Career Academic Consumer and Community Involvement (EMCR CCI) Kickstart Funding Scheme	To test PACT Online in an RCT with parent-child emotional availability	Aug 2023 - Dec 2023	\$500
Dr Stina Ofetdal	UQ Faculty of Medicine	Early and Mid-Career Academic Consumer and Community Involvement (EMCR CCI) Kickstart Funding Scheme	Co-create a responsive feeding intervention with end-users and stakeholders	Aug 2023 - Dec 2023	\$500
Ms Alyssa Serratore, Associate Professor Kristen Gibbons, Dr Sainath Raman, Dr Bec Jenkinson, Ms Jenny O'Neil	UQ Faculty of Medicine	Early and Mid-Career Academic Consumer and Community Involvement (EMCR CCI) Kickstart Funding Scheme	Promoting and developing strategies to support the inclusion of the consumer's voice in Paediatric Intensive Care Unit (PICU)	Aug 2023 - Dec 2023	\$500
Associate Professor Kristen Gibbons, Dr Sainath Raman, Dr Jessica Schults, Professor Bala Venkatesh, Professor Jha Vivekanand, Dr Jayashree Muralidharan, Dr Jhuma Sankar	UQ Global Strategy and Partnerships, UQ Faculty of Medicine, UQ CHRC	Global Strategy and Partnerships Seed Funding Scheme: Round Two 2023	Advancing Pediatric Partnerships with India: Transforming the Lives of Critically Ill Children	Aug 2023 - Aug 2024	\$11,344
Professor Paul Robinson	Vertex Pharmaceuticals	MBW Training and LCI Overread Services in support of VX20-445-112	Standardising the novel lung function technique and developing a mechanism to integrate it into clinical trials as a stepping stone to incorporation into clinical care	Aug 2023 - Apr 2026	\$1,140,155

Chief Investigators	Funding Body	Funding Scheme	Project	Dates	Total Grant Amount
Professor Craig Munns	William Ivers Memorial Fund	Advancement Office	Klinefelter Syndrome Registry	Jan 2024 – Dec 2028	\$140,000
Dr Trish Gilholm	Zoll-US	ZOLL Foundation Grants	Assessing school readiness outcomes in young children admitted to the paediatric intensive care unit using machine learning and population-based registry data in Queensland, Australia	July 2023 – Jun 2025	\$68,712.50
Professor Claire Wainwright	Cystic Fibrosis Foundation US	Clinical Research Award (Extension yr 6)	Finding the Optimal Regimen for <i>Mycobacterium abscessus</i> Treatment (FORMAT)	Oct 2024 – Sep 2025	\$2,038,872
Professor Claire Wainwright	Cystic Fibrosis Foundation US	Clinical Research Award (Extension yr 5)	Finding the Optimal Regimen for <i>Mycobacterium abscessus</i> Treatment (FORMAT)	Oct 2023 – Sep 2024	\$1,867,652
Dr Amanda Harley, Dr Devika Ganesamoorthy, Dr Sainath Raman, Dr Natalie Phillips, Associate Professor Kristen Gibbons, Associate Professor Lachlan Coin, Professor Luregn Schlapbach	Emergency Medicine Foundation	Leading Edge Grant	Biomarkers for rapid diagnosis of paediatric sepsis	Jan 2024 – Dec 2025	\$99,924
Associate Professor Kristen Gibbons	Government Department of Education via Australia India Institute/ARCH-India Australian	2023 Unnati Research Collaboration Grant	Improving the lives of critically ill children: Clinical trial capacity building in India through the RESPOND Trial	June 2023 – Dec 2023	\$32,681.00
Dr Andrew Collaro	Children's Health Queensland	Study Education and Research Trust Account (SERTA)	Mandibular jaw movement monitoring in children with neurodisability	2023	\$17,800
Ms Rachael Longland	Children's Health Queensland	Study Education and Research Trust Account (SERTA)	Sleep for health in Hospital	2023	\$16,800
Ms Jemma Woodgate, Associate Professor Kristen Gibbons, Dr Sainath Raman, Dr Kristie Bell, Dr Jeanne Marshall	Children's Health Queensland	Study Education and Research Trust Account (SERTA)	Nutrition therapy in infants receiving extracorporeal life support: A prospective, multi-site, observational study	Jan 2024 – Feb 2026	\$18,933
Ms Lori Anthony, Associate Professor Kristen Gibbons, Dr Anthony Slater, Miss Karina Charles, Associate Professor Deborah Long	Children's Health Queensland	Study Education and Research Trust Account (SERTA)	PICU survivorship care planning: Identifying unmet healthcare needs in children following critical illness	Jan 2024 – Feb 2026	\$19,939
Dr Kriti Joshi	Children's Health Queensland (CHQ) HHS & The University of Queensland	Clinical Research Fellowships	The RECLAIM Project: Roadmap to a cure -investigating the Clinical And Immunological landscape of early Type1 diabetes in children.	2024	\$100,000
Professor Paul Robinson	Arcturus Therapeutics Inc	ARCT-032-01	Phase 1/1b study of ARCT-032 in Healthy Adult Subjects and Adults with Cystic Fibrosis	Sep 2023 – Jun 2024	\$100,405
Dr Trish Gilholm	Australian Trials Methodology (AusTriM) Research Network	2023 Visiting Fellowship in Clinical Trial Methodology	Developing expertise in RCTs in pediatric critical care	Oct 2023 – 20 Oct 2023	\$3,024
Dr Natasha Reid	Azrieli Foundation	Science Grants Program	Gut microbiota and immune system alterations in children with Fetal Alcohol Spectrum Disorder (FASD): Implications for mental health	Oct 2023 – Apr 2025	\$47,500
Ms Phoebe Duncombe	De Luca Foundation	Seed for Science	Back in Action: Physiological factors that underpin the developing scoliosis curve	2024	\$10,000
Professor Peter Sly, Dr Dwan Vilcins	Waterloo Foundation	Child Development Research	Chemicals and neurodevelopment	July 2023 – Dec 2024	\$122,237
Dr Dwan Vilcins	International Society for Children's Health and the Environment	Fellowship Travel Award	A study of wildfire smoke and human health: translating evidence into clinical and public health practice	Jan 2024	\$6,000

Research Grant Funding awarded in 2023 where a Child Health Research Centre investigator was part of the team totalled \$12,897,779. Child Health Research Centre investigators are indicated in bold.

Chief Investigators	Funding Body	Funding Scheme	Project	Dates	Total Grant Amount
Led by University of Newcastle, Associate Professor Mohanraj Karunanithi	MRFF	MRFF 2021 Clinical Trials Activity- led by University of Newcastle	A comprehensive digital solution to empower asthma and comorbidity self-management	Feb 2023 - Jan 2028	\$30,004
Professor Kirsten Perrett, Associate Professor Jennifer Koplin , Professor Mimi Tang, Professor Dianne Campbell, Professor Andreas Lopata, Associate Professor Debbie Palmer, Professor Shyamali Dharmage, Professor Katherine Lee, Professor Richard Saffery, Professor Kim Dalziel	NHMRC	NHMRC Centre of Research Excellence led by the Murdoch Children's Institute	Towards eradicating food allergy: from population to precision prevention, early intervention and management	May 2023 - Dec 2027	\$2,541,083
PI: Professor Kirsten Perrett, MCRI; Ci: Associate Professor Jennifer Koplin, CHRC	Australian Government Department of Health and Aged Care	Led by the Murdoch Children's Research Institute	The National Allergy Centre of Excellence	May 2023 - May 2025	\$362,19
Professor Mimi Tang, Associate Professor Jennifer Koplin , Professor Shyamali Dharmage, Professor Kim Dalziel, Associate Professor Bircan Erbas, Associate Professor Rachel Peters, Dr Li Huang, Dr Paxton Loke, Dr Michael O'Sullivan, Dr Patrick Quinn	NHMRC	NHMRC Clinical Trials and Cohort Studies Grant (led by Murdoch Children's Research Institute)	Does peanut OIT provide greater benefit than allergen avoidance (current standard care) in the real world?	July 2023 - Jun 2026	\$1,633,869
Professor Fiona Coyer, Professor Paul Fulbrook, Professor Amanda Ullman , Professor Samantha Keogh, Professor Jed Duff, Associate Professor Deborah Long, Associate Professor Michelle Barakat-Johnson, Dr Deanne August , Miss Lee Jones, Dr Hannah Carter	NHMRC	NHMRC Partnership Grant	Eliminating harm from devices across the life span in critical illness: The DEFENCE study	Aug 2023 - Jul 2026	\$1,504,756
Dr Evan Alexandrou, Professor Nicole Marsh, Professor Amanda Ullman , Dr Steven Frost	Statseal: Industry Grant	Statseal: Investigator Initiated Study	PRomoting haEmoStaSis for central venous access devices: a randomised controlled trial (PRESS)	Mar 2023 -Feb 2025	\$217,199
Dr Seth Cheetham, Associate Professor Nicola Waddell, Professor Di Yu , Associate Professor Timothy Mercer, Associate Professor Marina Pajic, Professor Maher Gandhi, Dr Jazmina Gonzalez Cruz, Professor Brandon Wainwright, Professor Vicki Whitehall, Professor Wayne Nicholls, Associate Professor Fiona Simpson-Fraser, Dr Olga Kondrashova, Associate Professor Adam Ewing	MRFF	National Critical Research Infrastructure	Building the next mRNA vaccines and therapies	2023-2027	\$6,608,675

Appendix 2

CHRC PUBLICATIONS

Books

1. *This is Eddie the EPFR*. Lattin, M., & Louisiana State University (Baton Rouge, La.), sponsoring body & The University of Queensland, **Children's Health and Environment Program**, issuing body; 2023.
2. *Kendig and Willmott's Disorders of the Respiratory Tract in Children*. Bush, A., Deterding, R. R., Li, A., Ratjen, F., **Sly, P.**, Zar, H., Wilmott, R. W., eds. 10th ed. Philadelphia, PA: Elsevier; 2023

Book Chapters

1. Bush, A., & **Sly, P.** Long-term consequences of Childhood Respiratory Disease. In: Bush A, Deterding RR, Li A, Ratjen F, Sly P, Zar H, Wilmott RW, eds. *Kendig and Willmott's Disorders of the Respiratory Tract in Children* 10th ed. Elsevier; 2023.
2. **Coles, L., Cooke, E., & Chawla, J.** Confronting meanings of motherhood in neoliberal Australia: six crystallised case studies. In: Lyudmila N, Lisa M, Kateřina S-J, eds. *Biographical Research and the Meanings of Mothering*. Policy Press; 2023:158-193.
3. **Coles, L., Cooke, E., & Chawla, J.** Confronting meanings of motherhood in neoliberal Australia: Six Crystallised Case Studies. In: Nurse L, Moran L, Sidiropulu-Janků K, eds. *Biographical Research and the Meanings of Mothering: Life Choices, Identities and Methods*. 1 ed. Bristol University Press, Policy Press; 2023:158-193.
4. **Cooke, E., Coles, L., Thorpe, K., & Houen, S.** Crystallising The Everyday Emotional Work of Women Working in Childcare During Covid-19. In: Mackinlay E, Madden K, eds. *Departing Radically in Academic Writing* Routledge; 2024:15-25.
5. **Koplin, J.J.**, Klein, L., Clifford, V., & Peters, R.L. Role of breastfeeding: Duration of breastfeeding and exclusive breastfeeding. *Reference Module in Food Science*. Elsevier; 2023.
6. **Koplin, J.J.**, & Peters, R.L. Role of domestic animal exposure. *Reference Module in Food Science*. Elsevier; 2023.
7. **Moritz, K.M.**, Akison, L.K., **Hayes, N.**, & **Reid, N.** Physical and Mental Health in FASD. In: Abdul-Rahman OA, Petrenko CLM, eds. *Fetal Alcohol Spectrum Disorders : A Multidisciplinary Approach*. Springer International Publishing; 2023:241-267.
8. Peters, R.L., Soriano, V.X., Wijesuriya, R., & **Koplin, J.J.** Tools for determination of food allergy in epidemiological studies. *Reference Module in Food Science*. Elsevier; 2022.
9. **Robinson, P.D.** Lung Function Testing Including Multiple Breath Washout. In: Bush A, Amaral MD, Davies JC, Simmonds NJ, Taylor-Cousar JL, Ranganathan S, eds. *Hodson and Geddes' Cystic Fibrosis* CRC Press; 2023.
10. **Sly, P.**, & Bush, A. Environmental Contributions to Respiratory Disease in Children. In: Bush A, Deterding RR, Li A, Ratjen F, Sly P, Zar H, Wilmott RW, eds. *Kendig and Willmott's Disorders of the Respiratory Tract in Children* 10th ed. Elsevier; 2023.

Journal Articles

1. Acaster, S., Mukuria, C., Rowen, D., Brazier, J.E., **Wainwright, C.E.**, Quon, B.S., Duckers, J., Quittner, A.L., Lou, Y., Sosnay, P.R., & McGarry, L.J. (2023). Development of the Cystic Fibrosis Questionnaire-Revised-8 Dimensions: Estimating Utilities From the Cystic Fibrosis Questionnaire-Revised. *Value Health*. 26(4):567-578. doi:10.1016/j.jval.2022.12.002
2. Acharya, B.D., Karki, A., Prasertsukdee, S., Reed, D., Rawal, L., Baniya, P.L., & **Boyd, R.N.** (2023). Effect of Adaptive Seating Systems on Postural Control and Activity Performance: A Systematic Review. *Pediatr Phys Ther*. 35(4):397-410. doi:10.1097/pep.0000000000001042
3. Adams, M.J., Thorp, J.G., Jermy, B.S., Kwong, A.S.F., Kõiv, K., Grotzinger, A.D., Nivard, M.G., MarsHall, S., Milaneschi, Y., Baune, B.T., Müller-Myhsok, B., Penninx, B.W., Boomsma, D.I., Levinson, D.F., Breen, G., Pistis, G., Grabe, H.J., Tiemeier, H., Berger, K., Rietschel, M., Magnusson, P.K., Uher, R., Hamilton, S.P., Lucae, S., Lehto, K., Li, Q.S., **Byrne, E.M.**, Hickie, I.B., Martin, N.G., Medland, S.E., Wray, N.R., Tucker-Drob, E.M., Lewis, C.M., McIntosh, A.M., & Derks, E.M. (2023). Genetic structure of major depression symptoms across clinical and community cohorts. *medRxiv*. doi:10.1101/2023.07.05.23292214
4. Akingbuwa, W.A., Hammerschlag, A.R., Allegrini, A.G., Sallis, H., Kuja-Halkola, R., Rimfeld, K., Lichtenstein, P., Lundstrom, S., Munafò, M.R., Plomin, R., Nivard, M.G., Bartels, M., & **Middeldorp, C.M.** (2023). Multivariate analyses of molecular genetic associations between childhood psychopathology and adult mood

disorders and related traits. *Am J Med Genet B Neuropsychiatr Genet.* 192(1-2):3-12. doi:10.1002/ajmg.b.32922

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7. Arnold, A., Coventry, L., Foster, M., **Koplin, J.**, & Lucas, M. (2023). The burden of self-reported antibiotic allergies in healthcare and how to address it: A systematic review of the evidence. *Intern Med J.* 53:6-6. doi:10.1111/imj.3_16230
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10. Bairagi, A., **Tyack, Z.**, **Kimble, R.**, Vagenas, D., McPhail, S.M., & **Griffin, B.** (2023). A Pilot Randomised Controlled Trial Evaluating a Regenerative Epithelial Suspension for Medium-Size Partial-Thickness Burns in Children: The BRACS Trial. *Eur Burn J.* 4(1):121-141. doi:10.3390/ejb4010012
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14. Barnes, J.L., Yoshida, M., He, P., Worlock, K.B., Lindeboom, R.G.H., Suo, C., Pett, J.P., Wilbrey-Clark, A., Dann, E., Mamanova, L., Richardson, L., Polanski, K., Pennycuik, A., Allen-Hyttinen, J., Herczeg, I.T., Arzili, R., Hynds, R.E., Teixeira, V.H., Haniffa, M., Lim, K., Sun, D., Rawlins, E.L., Oliver, A.J., Lyons, P.A., Marioni, J.C., Ruhrberg, C., **Tuong, Z.K.**, Clatworthy, M.R., Reading, J.L., Janes, S.M., Teichmann, S.A., Meyer, K.B., & Nikolić, M.Z. (2023). Early human lung immune cell development and its role in epithelial cell fate. *Sci Immunol.* 8(90):eadf9988. doi:10.1126/sciimmunol.adf9988
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18. **Benfer, K.**, **Boyd, R.N.**, Roe, Y., Fagan, R., **Luke, C.**, Mick-Ramsamy, L., **Whittingham, K.**, Novak, I., Bosanquet, M., McNamara, L., **Khandaker, G.**, Fogarty, L., Cadet-James, Y., Ruben, A., Comans, T., Smith, A., & Ware, R.S. (2023). Study protocol: peer delivered early intervention (Learning through Everyday Activities with Parents for Infants at risk of Cerebral Palsy: LEAP-CP) for First Nation Australian infants at high risk of cerebral palsy - an RCT study. *BMJ Open.* 13(3):e059531. doi:10.1136/bmjopen-2021-059531
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Non-Peer-Reviewed

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Conference Papers

1. Anderson, M., **Harte, S., & Barlow, K.** Concerning weight trajectories indicate a need to optimise weight management after brain injury: a retrospective review of paediatric records. presented at: EPNS 2023; 2023; Prague, Czech Republic.
2. **Barlow, K.** Australia and New Zealand Clinical Practice Guidelines for the Assessment and Management of Mild Traumatic Brain Injury and Persistent Post Concussion Symptoms for adults and children. presented at: 2023 Rehabilitation Medicine Society of Australia and New Zealand; 2023; Hobart, Australia.
3. Beani, E., Minici, V., Sicola, E., Ferrari, A., Feys, H., Klingels, K., Mailleux, L., **Boyd, R.**, Cioni, G., & Sgandurra, G. Effectiveness of a home-based action observation training in unilateral cerebral palsy: The role of the less-affected hand. presented at: 35th Annual Meeting of the European Academy of Childhood Disability; 2023; Ljubljana, Slovenia. *Dev Med Child Neurol* 2023, 65(S2):79.
4. **Benfer, K.**, Ghosh, A., **Whittingham, K.**, Novak, I., Ware, R., & **Boyd, R.** Randomised controlled trial of parent-delivered early intervention (LEAP-CP learning through everyday activities with parents) for infants at high risk of cerebral palsy in a low-middle income country. presented at: American Academy of Cerebral Palsy and Developmental Medicine; 2023; Chicago, USA. *Dev Med Child Neurol* 2023, 65(S3):33.
5. **Blake, T., Hantos, Z., Wainwright, C., & Sly, P.** Measures of Ventilation Inhomogeneity in Children with Cystic Fibrosis: Intra-breath Oscillometry vs. MBW. presented at: American Thoracic Society International Conference; 2023; Washington, DC, USA. *Am. J. Respir. Crit. Care Med* 2023;207:A4061.
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9. **Burgess, A., Oftedal, S., Boyd, R., Reedman, S., Trost, S., Ware, R., & Sakzewski, L.** Construct validity of the both hands assessment using wrist-worn accelerometers. presented at: American Academy of Cerebral Palsy and Developmental Medicine; 2023; Chicago, USA. *Dev Med Child Neurol* 2023, 65(S3):40.
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12. **Kwong, A., Eeles, A., Morgan, C., Boyd, R., & Spittle, A.** Knowledge translation of early identification of cerebral palsy (KiTE CP) study: Engagement in screening implementation among a high-risk prospective cohort of Australian infants. presented at: 35th Annual Meeting of the European Academy of Childhood Disability; 2023; Ljubljana, Slovenia. *Dev Med Child Neurol* 2023, 65(S2):11.
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21. **Sakzewski, L., Bleyenheuft, Y., Novak, I., Elliott, C., Reedman, S., Morgan, C., Pannek, K., Fripp, J., Ware, R., & Boyd, R.** HABIT-ILE Australia: Randomised trial of Hand-Arm Bimanual Intensive Training Including Lower Extremity for children with bilateral cerebral palsy. presented at: American Academy of Cerebral Palsy and Developmental Medicine; 2023; Chicago, USA. *Dev Med Child Neurol* 2023, 65(S3):82.
22. **Sakzewski, L., Ware, R., Greaves, S., Burgess, A.,**

- Shannon, B.**, Eliasson, A., & **Boyd, R.** Trajectory of development of the impaired hand during the first 15 months of life in infants with unilateral cerebral palsy (UCP). presented at: American Academy of Cerebral Palsy and Developmental Medicine; 2023; Chicago, USA. *Dev Med Child Neurol* 2023, 65(S3):86.
23. **Sakzewski, L.**, Ware, R., Greaves, S., **Burgess, A.**, **Shannon, B.**, Eliasson, A., & **Boyd, R.** Development of the impaired hand during the first 15 months of life in infants with unilateral cerebral palsy. presented at: 35th Annual Meeting of the European Academy of Childhood Disability; 2023; Ljubljana, Slovenia. *Dev Med Child Neurol* 2023, 65(S2):63.
24. Scott, K., Heathcock, J., **Sakzewski, L.**, & **Boyd, R.** Therapist fidelity in a multi-site randomized comparative efficacy trial of Baby-CIMT and Baby-BIM for infants with unilateral cerebral palsy. presented at: American Academy of Cerebral Palsy and Developmental Medicine; 2023; Chicago, USA. *Dev Med Child Neurol* 2023, 65(S3):37.
25. Scott, K., Rethorn, T., Quatman-Yates, C., Heathcock, J., **Sakzewski, L.**, & **Boyd, R.** Facilitators and barriers for parent enactment of intensive, parent-directed early intervention for infants with unilateral cerebral palsy. presented at: American Academy of Cerebral Palsy and Developmental Medicine; 2023; Chicago, USA. *Dev Med Child Neurol* 2023, 65(S3):133.
26. **Stein, A.**, & **Barlow, K.** (2023). Home based remotely supervised tDCS in children with acquired brain injury: a feasibility study protocol. *Brain Stimulation*. 16(1):300. doi:<https://doi.org/10.1016/j.brs.2023.01.540>
27. **Stein, A.**, Caulfield, K.A., Craven, M.P., Groom, M.J., & **Barlow, K.M.** Electric field predicts tDCS-related attention improvement in children with acquired brain injury: a sham-controlled clinical trial. presented at: Australasian Brain Stimulation Society (ABSS) Symposium 2023; Sydney, Australia
28. **Stein, A.**, **Iyer, K.K.**, Dux, P.E., Friehs, M.A., Craven, M.P., Groom, M.J., & **Barlow, K.M.** Functional network biomarkers of attention improvement after tDCS in children with acquired brain injury: A sham-controlled clinical trial. 2023:
29. **Stein, A.**, **Iyer, K.K.**, Dux, P.E., Friehs, M.A., Riddle, J., Craven, M.P., Groom, M.J., & **Barlow, K.M.** tDCS at home in children with acquired brain injury (hrtDCS-Attention): A dose-controlled clinical trial protocol. presented at: The 5th International Brain Stimulation Conference; 2023; Lisbon, Portugal.
30. **Stein, A.**, **Iyer, K.K.**, Dux, P.E., Riddle, J., Friehs, M.A., Schroeder, P.A., & **K.M., B.** Home based tDCS in children with acquired brain injury: preliminary results from the hrtDCS-attention trial. presented at: Australasian Brain Stimulation Society (ABSS) Symposium; 2023; Sydney, Australia
31. **Stein, A.**, **Iyer, K.K.**, & **K.M., B.** Abnormal default mode network functional connectivity is associated with poorer attention in children with acquired brain injury: A HD-EEG study. 2023:
32. **Stein, A.**, Thorstensen, J.R., **Ho, J.M.**, Ashley, D.P., **Iyer, K.K.**, & **Barlow, K.M.** Investigating the association between brain network connectivity and attention following acquired brain injury: A systematic review of structural and functional measures. presented at: Rehabilitation Medicine Society of Australia and New Zealand (RMSANZ); 2023; Hobart, Australia.

Appendix 3

AWARDS

Name	Award
Dr Kath Benfer	77 th Annual American Academy of Cerebral Palsy and Developmental Medicine: Mac Keith Press Promising Career Award
Associate Professor Jas Chawla	Highly Commended Presentation – Child Health Research Centre HDR/ECR Showcase
Dr Laetitia Coles	Early-to-Mid Career Research Industry Engagement Award
Dr Emma Cooke	QBI Art in Neuroscience Competition Award – Third Place
Dr Emma Cooke	Life Course Centre Capacity Building Award – Early Career Researcher
Dr Emma Cooke	Highly Commended Presentation – Child Health Research Centre HDR/ECR Showcase
Associate Professor Kristen Gibbons	Leader of the Future (Academic), Faculty of Medicine, The University of Queensland
Dr Gaela Kilgour	Life membership Physiotherapy New Zealand for contribution to physiotherapy in Aotearoa, New Zealand for services to whanau, tamariki and rangitahi (families, children and adolescents) with disabilities and for promoting international collaboration
Dr Karissa Ludwig	Australia and New Zealand Society for Paediatric Endocrinology and Diabetes (ANZSPED) Emerging Investigator Award
Dr Anna MacDonald	Child Health Research Centre Unsung Hero
Professor Craig Munns	William Ivers Memorial Fund awarded for Klinefelter Syndrome Registry
Dr Natasha Reid	UQ Faculty of Medicine Spirit of Reconciliation
Professor James Scott	Highly Cited Researched 2023 in the field of Cross-Field; Clarivate.
Professor Amanda Ullman	Most Outstanding Patient Innovation, Australian Hospital Association
Professor Di Yu	Jacques Miller Medal – Australian Academy of Science
The Children's Intensive Care Research Program (ChIRP)	Finalist, Collaborators of the Year, Faculty of Medicine, The University of Queensland

Student Awards

Name	Award
Ms Carolina Acuna	Best RHD Presentation, Occupational Therapy Australia National Conference, Cairns
Ms Carolina Acuna	Second Place, best presentation, South American Sensory Integration Conference, Chile
Miss Elouise Comber	Bing and Ross Barnard Biotechnology Prize
Miss Phoebe Duncombe	3MT presentation winner: The International Society of Electromyography and Kinesiology, for her talk titled: Muscle Asymmetry in Adolescent Idiopathic Scoliosis
Miss Phoebe Duncombe	Best Clinical Oral Presentation: Australian and New Zealand Association of Clinical Anatomists Congress, for her talk titled: Quantifying Muscle Asymmetry in Adolescent Idiopathic Scoliosis
Miss Phoebe Duncombe	The Clayton Adam Award for best paper presented at the Australian Spine Society Scientific Meeting by a junior research scientist
Miss Phoebe Duncombe	The Faculty of Medicine 3MT heat winner, for her talk titled: The role of back muscles in Adolescent Scoliosis
Benz Halong	Best Undergraduate Student Presentation, The University of Queensland School of Health and Rehabilitation Sciences Postgraduate Conference, Brisbane, Queensland
Ms Lorelle Holland	National Tertiary Education Union Joan Hardy Scholarship Award 2023
Ms Lorelle Holland	Melbourne Poche Centre's Indigenous Leadership Program for 2024 (National and International Fellowship)

Appendix 4

CONFERENCE PRESENTATIONS

Invited Speakers		
Dr Deanne August	Invited Speaker:	“Transforming vascular access device and practices for neonates”, Association for Vascular Access, United States
Dr Jacqui Barfoot	Keynote Speaker:	“Including a relationship-focused approach in early childhood interventions”, NDIA National Forum, Geelong
Professor Karen Barlow	Invited Speaker:	“Australia and New Zealand Clinical Practice Guidelines for the Assessment and Management of Mild Traumatic Brain Injury and Persistent Post Concussion Symptoms for adults and children”, RMSANZ 2023, Hobart
Professor Roslyn Boyd	Keynote Speaker:	“Early detection and neuro-restorative rehabilitation for children with cerebral palsy”, Israeli National Rehabilitation Conference, Tel Aviv “Early detection and neuro-restorative rehabilitation for children with cerebral palsy”, Lebanon National Rehabilitation Conference, Beirut
Dr Denise Brookes	Invited Speaker:	“Australian Cerebral Palsy Musculoskeletal Health Network (MRF2015970)”, Rehab For Kids, Brisbane
Associate Professor Jasneek Chawla	Keynote Speaker:	“Sleep Evaluation for High-Risk Children”, Frontiers 2023- The Art, Science and Future of Otolaryngology Head and Neck Surgery
	Plenary Speaker:	“Syndromic Sleep”, Australasian Society of Head and Neck Surgery Annual Conference (ASOHNS)
	Invited Speaker:	“Sleep Problems in Children with Down syndrome”, UK Down Syndrome Research Foundation “Sleep in Down syndrome – A State-of-the-Art Overview”, Scottish Lung in Childhood Meeting “Don’t Forget to Ask About Sleep”, Child Unlimited 2023 “Sleep in Autism”, Australasian Society of Head and Neck Surgery Annual Conference (ASOHNS) “Sleep in Children with Neurodisability”, Solving Sanfilippo syndrome conference “Let’s Talk About Sleep”, Children’s Hospital Foundation webinar “Sleep in Children with Neurodisability”, Prader Willi Syndrome Families Research Update webinar “Research round up: Sleep in Children with Neurodisability”, Fragile X Australia Webinar
Associate Professor Jasneek Chawla & Dr Emma Cooke	Invited Speakers:	“Sleep Research in Down Syndrome: An update”, Down Syndrome Queensland webinar
Associate Professor Louise Conwell	Invited Speaker:	“Advancing personalised care of Congenital Hyperinsulinism: the clinical – genetic interface”, 2023 Australia and New Zealand Society for Paediatric Endocrinology and Diabetes Annual Scientific Meeting
Associate Professor Kristen Gibbons	Invited Panel Member:	“Real-World Approaches to Implementing QI Measures in Critical Care” Pedicriticon; Pune (India), November 2023. “High Risk Follow Up Of Post Discharge, Whom To Follow, What To Look For”, Pedicriticon; Pune (India), November 2023.
	Plenary Speaker:	“The Methodologist’s View: Insights from running trials in paediatric intensive care”, ESPNIC Winter Research School; Lausanne, Switzerland, January 2023.
	Invited Speaker:	“A scoping review to inform better consenting practices for the most vulnerable in healthcare research”, Australasian Association of Bioethics and Health Law; Brisbane, November 2023.

		<p>“Comparison of Administration of 0.9% Sodium Chloride Solution vs Plasma-Lyte vs Compound Sodium LacTate Solution in Children Admitted to PICU: A Randomised Controlled Trial”, Australian and New Zealand Intensive Care Annual Scientific Meeting; Adelaide, March 2023.</p>
		<p>“Innovative trial designs: A primer”, Doctoral Seminar, Universite de Lausanne/CHUV; Lausanne, March 2023.</p>
		<p>“How adaptive designs fits implementation science”, Les conférences de l’IUFERS; Lausanne, March 2023.</p>
		<p>“Investigator-Initiated RCTs in Paediatrics: Lessons Learnt and Opportunities for the Next Decade”, University Children’s Hospital Zurich Clinical-Biochemical Colloquium; Zurich, February 2023.</p>
		<p>“Building together: A scoping review to inform better consenting practices for the most vulnerable in healthcare research”, Australian Ethics Network (AEN); Melbourne, May 2023.</p>
Dr Trish Gilholm	Invited Speaker:	<p>“Educational outcomes after PICU”, Australia and New Zealand Intensive Care Society Annual Scientific Meeting; Adelaide, March 2023</p> <p>“Machine learning to predict poor school performance in paediatric survivors of intensive care – A population-based study”, Australia and New Zealand Intensive Care Society Paediatric Study Group (ANZICS PSG) Scientific Meeting; Noosa, March 2023.</p>
Ms Nicole Hewlett	Plenary Speaker:	<p>“The critical role of Aboriginal healing-informed, strengths-based and solution-focused approaches to address inequities around fetal alcohol spectrum disorder in Australia”, The Australasian Professional Society on Alcohol and other Drugs (APSAD) Annual Conference, Adelaide, November 2023</p>
	Invited Speaker:	<p>“Addressing FASD through healing-informed, strengths-based and solution-focused approaches”, Closing the Gap on Indigenous Health Forum, Melbourne, December 2023.</p>
Ms Nicole Hewlett & Dr Natasha Reid	Invited Speaker:	<p>“Applying an Australian Indigenous FASD Framework in your practice: Yarning about how we draw on the strengths of Aboriginal and Western wisdom to improve services”, Neurodevelopmental and Behavioural Paediatric Society of Australasia (NBPSA) Annual Conference, Darwin, August 2023.</p>
Associate Professor Jennifer Koplin	Invited Speaker:	<p>“Food Allergy Research Symposium: Improving Food Allergy Treatment in Australia: Update on evidence”, Australasian Society of Clinical Immunology and Allergy, Sydney, Sept 2023</p>
Dr Sainath Raman	Invited Chairperson:	<p>“Recent Update: Pain And Analgesia Guidelines”, Pedicriticon; Pune (India), November 2023.</p>
	Invited Panel Member:	<p>“Use of Biomarkers in Sepsis: Clinical Relevance and Limitations”, Pedicriticon; Pune (India), November 2023.</p>
Dr Sarah Reedman	Keynote Speaker:	<p>“Active Start Active Future: results of a pilot feasibility study of an inclusive early intervention to promote physical activity participation and swap sedentary behaviour for active time in 4-7 year old children with CP in GMFCS levels I-V”, World Abilitysport International Conference, Edinburgh, Scotland.</p>
Dr Natasha Reid, Dr Andi Crawford & Ms Tania Henderson	Invited Speaker:	<p>“Updates regarding Australia and New Zealand Aotearoa guidelines for assessment and diagnosis of FASD”, The Australasian Professional Society on Alcohol and other Drugs (APSAD) Annual Conference, FASD Pre-conference Workshop, Adelaide, November 2023</p>
Professor Paul Robinson	Invited Chairperson:	<p>“Evolving concepts in Lung Function testing and monitoring”, American Thoracic Society 2023 Conference</p>
	Invited Speaker:	<p>“Overview of Welcome Trust Grants and other grant opportunities”, NHMRC-NAFOSTED</p> <p>Discussion Points, NHMRC-NAFOSTED</p>
	Invited Speaker and Panel Member:	<p>“CFTR modulator therapy: transforming the landscape of clinical care in cystic fibrosis”, European Respiratory Society 2023 Conference</p>
Associate Professor Leanne Sakzewski	Keynote Speaker:	<p>“The Friends Research Program: Optimizing social competency in children and adolescents with brain injuries”, CP Achieve and AusACPD Symposium. Melbourne</p>

Professor James Scott	Keynote Speaker:	<p>“The Prevalence and Health Outcomes of Child Maltreatment in Australia: The Australian Child Maltreatment Study”, RANZCP Faculty of Child & Adolescent Psychiatry 2023: Riding the Wave.</p> <p>“Does Australia have an adolescent mental health crisis? Learnings from international studies”, Queensland Catholic Education Commission</p> <p>“The prevalence and associated health outcomes of Child Maltreatment: The Australian Child Maltreatment Study”, 2023 Herston Health Precinct Symposium.</p> <p>“Optimising Medication in Early Psychosis”, Australian Psychosis Conference 2023: Be the Bridge.</p> <p>“The prevalence and associated health outcomes of child abuse and neglect in Australia: The Australian Child Maltreatment Study”, Children’s Health Queensland Research Showcase.</p>
	Plenary Speaker:	<p>“Early Schizophrenia: Best Practice to Optimise Outcomes”, Royal Australian and New Zealand College of Psychiatrists Bi-National Webinar October 2023</p>
	Invited Speaker:	<p>“The Australian Child Maltreatment Study: Key findings for psychiatric practice”, Royal Australian and New Zealand College of Psychiatrists Bi-National Webinar July 2023</p>
	Invited Chairperson:	<p>“Population screening, testing and vaccination”, Pacific Basin Consortium 2023 Focus Meeting</p>
	Invited Panel Member:	<p>Panel Session, Queensland Clinical Senate</p>
Professor Peter Sly	Invited Speaker:	<p>“Climate change: Implications for Children’s Health in Queensland”, Queensland Clinical Senate</p> <p>“Asthma and Allergic Airways Disease Short Course 2023 Effects of Environmental Pollution”, AADA Short Course 2023</p> <p>“Introduction of UQ’s Children’s Health and Environment Program, WHO Collaborating Centre for Children’s Health and Environment, and Pacific Basin Consortium (PBC) for the Environment & Health, ongoing projects and research priorities”, NHMRC-NAFOSTED</p> <p>Opening Speech – NHMRC-NAFOSTED</p> <p>“Collaboration plans between UMP and UQ”, NHMRC-NAFOSTED</p> <p>Open discussion and developing ideas, NHMRC-NAFOSTED</p> <p>“Mechanisms by which air pollution increases susceptibility to pandemic respiratory viruses”, Pacific Basin Consortium 2023 Focus Meeting</p>
	Keynote Speaker:	<p>“Single-cell analysis of prostate cancer reveals macrophages with zinc program”, ABACBS Clinical Informatics Symposium, Brisbane</p>
	Invited Speaker:	<p>“Single-cell TCR/BCR-seq trajectory analysis”, ASI 2023 Clinical Immunology, Autoimmunity & Tolerance, Systems Immunology Pre-Meeting Workshop, Auckland</p> <p>“Single-cell analysis of prostate cancer reveals macrophages with zinc program”, 22nd Brisbane Immunology Retreat, Brisbane</p> <p>“Single-cell analysis of innate and adaptive immunity in disease and development”, UCL Great Ormond Street Institute of Child Health Developmental Biology, Genetics and Stem Cell Seminar, London</p> <p>“Single-cell analysis of innate and adaptive immunity in disease and development”, QIMR-B Infection and Immunity seminar, Brisbane</p> <p>“Single-cell analysis of adaptive immune receptors in disease and development”, Australian Paediatric Immunotherapy Conference, Brisbane</p> <p>“My Adventures in Single-cell Analysis of Immune Cells”, Frazer Institute Seminar, Brisbane</p>
	Keynote Speaker:	<p>“Single-cell analysis of prostate cancer reveals macrophages with zinc program”, ABACBS Clinical Informatics Symposium, Brisbane</p>
	Invited Speaker:	<p>“Single-cell TCR/BCR-seq trajectory analysis”, ASI 2023 Clinical Immunology, Autoimmunity & Tolerance, Systems Immunology Pre-Meeting Workshop, Auckland</p> <p>“Single-cell analysis of prostate cancer reveals macrophages with zinc program”, 22nd Brisbane Immunology Retreat, Brisbane</p> <p>“Single-cell analysis of innate and adaptive immunity in disease and development”, UCL Great Ormond Street Institute of Child Health Developmental Biology, Genetics and Stem Cell Seminar, London</p> <p>“Single-cell analysis of innate and adaptive immunity in disease and development”, QIMR-B Infection and Immunity seminar, Brisbane</p> <p>“Single-cell analysis of adaptive immune receptors in disease and development”, Australian Paediatric Immunotherapy Conference, Brisbane</p> <p>“My Adventures in Single-cell Analysis of Immune Cells”, Frazer Institute Seminar, Brisbane</p>
	Keynote Speaker:	<p>“Single-cell analysis of prostate cancer reveals macrophages with zinc program”, ABACBS Clinical Informatics Symposium, Brisbane</p>
	Invited Speaker:	<p>“Single-cell TCR/BCR-seq trajectory analysis”, ASI 2023 Clinical Immunology, Autoimmunity & Tolerance, Systems Immunology Pre-Meeting Workshop, Auckland</p> <p>“Single-cell analysis of prostate cancer reveals macrophages with zinc program”, 22nd Brisbane Immunology Retreat, Brisbane</p> <p>“Single-cell analysis of innate and adaptive immunity in disease and development”, UCL Great Ormond Street Institute of Child Health Developmental Biology, Genetics and Stem Cell Seminar, London</p> <p>“Single-cell analysis of innate and adaptive immunity in disease and development”, QIMR-B Infection and Immunity seminar, Brisbane</p> <p>“Single-cell analysis of adaptive immune receptors in disease and development”, Australian Paediatric Immunotherapy Conference, Brisbane</p> <p>“My Adventures in Single-cell Analysis of Immune Cells”, Frazer Institute Seminar, Brisbane</p>

Professor Amanda Ullman	Keynote Speaker:	<p>“Together, we can: A call for translation and exchange of knowledge in intravenous therapy”, ConTIVBA Brazil</p> <p>“Extravasation or infiltration in peripheral vascular access devices”, ATISPA Argentina</p> <p>“Securement of vascular access device for children”, World Congress of Vascular Access, Canada</p>	
	Invited Speaker:	<p>“IV Devices”, World Society for Pediatric Infectious Disease, South Africa</p> <p>“Choosing an intravenous device dressing and securement toolkit”, Infusion Nurses Society, United States</p>	
Professor Amanda Ullman & Dr Deanne August	Keynote Speaker:	<p>“PICCing the best PICC: Uncovering the Role of PICC Materials and Design to Reduce Harm”, Association for Vascular Access, United States</p>	
Dr Dwan Vilcins	Invited Speaker:	<p>“Global Respiratory Health in the Setting of Climate Change”, American Thoracic Society (ATS)</p> <p>“The stability, characteristics & predictors of environmentally persistent free radicals in household dust”, Louisiana State University Superfund Research Program (LSUSRP)</p> <p>“Trends and predictors of environmentally persistent free radicals in household dust”, The Society for Redox Research Australasia (SFRRA)</p> <p>“The interplay between environmental exposures and COVID-19 risks in the health of children”, ISEE</p> <p>“Environmentally persistent free radicals in household dust: longitudinal and seasonal trends”, Pacific Basin Consortium 2023 Focus Meeting</p>	
		<p>“MotherCare: Building online resources for mothers of infants one study at a time”, QLD PIMH Symposium Gold Coast 10th November 2023.</p>	
		<p>“MotherCare: Developing brief online support for mothers of babies grounded in compassion-focussed therapy and acceptance and commitment therapy”, Context Matters Symposium La Trobe University 28th October 2023</p> <p>“Evolution, parenting and acceptance and commitment therapy”, ACT Italia ACT Summit 15th April, Virtual</p>	
		<p>“Astaxanthin protects against pollution induced oxidative stress in respiratory epithelium”, The Society for Redox Research Australasia (SFRRA)</p> <p>“Astaxanthin protects against EPFR exposure on primary human nasal epithelial cells cultured at an air-liquid interface”, Louisiana State University Superfund Research Program (LSUSRP)</p>	
Professor Di Yu	Keynote Speaker:	<p>The European Alliance of Associations for Rheumatology (EULAR) 2023 Congress, Italy, May 2023</p> <p>The World Immune Regulation Meeting – XVII, Switzerland, July 2023</p> <p>Asia Pacific Vaccine and Immunotherapy Congress, Apr 2023</p> <p>Immunity and Inflammation: Mechanism and Therapeutics, Cell Research Symposium, China, Oct 2023</p>	
		Invited Speaker:	<p>Department of Biomedicine, University of Basel, Switzerland, May 2023</p>
		Invited Speaker:	<p>“Hyperinsulinaemic hypoglycaemia associated with PEG-asparaginase therapy for acute lymphoblastic leukaemia”, Annual scientific meetings of the Australia and New Zealand Society of Paediatric Endocrinology and Diabetes; and the Australian & New Zealand Childrens Haematology/Oncology Group.</p>
Collaborative project between Queensland Children’s Hospital Departments of Endocrinology and Diabetes; and Oncology	Invited Speaker:	<p>“Hyperinsulinaemic hypoglycaemia associated with PEG-asparaginase therapy for acute lymphoblastic leukaemia”, Annual scientific meetings of the Australia and New Zealand Society of Paediatric Endocrinology and Diabetes; and the Australian & New Zealand Childrens Haematology/Oncology Group.</p>	

Appendix 5

RESEARCH HIGHER DEGREE STUDENTS

Completions in 2023.

Child Health Research Centre supervisors are shown in bold.

Student	Program	Project Title	Supervisors	Completion Date
Dr Nataya Branjerdporn	PhD	Caregiver-infant emotional availability outcomes and intervention delivery fidelity in a community-based caregiver-implemented program for infants at high risk of cerebral palsy in a low resource context	Associate Professor Leanne Sakzewski, Dr Emma Crawford, Dr Katherine Benfer, Emeritus Professor Jenny Ziviani	30 January 2023
Dr Claire Brereton	PhD	Children's Environmental Health in Least Developed Countries: a modelling approach to support policy decisions	Professor Paul Jagals, Dr Matteo Pedercini, Professor Peter Sly	15 December 2023
Dr Rebecca Caesar	PhD	Early Prediction of typical outcome and mild developmental delay for prioritisation of service delivery for very preterm and very low birthweight infants.	Professor Roslyn Boyd, Professor Paul Bernard Colditz	16 June 2023
Dr Jasneek Chawla	PhD	Sleep in Children with Down syndrome: Improving Outcomes	Associate Professor Helen Heussler, Associate Professor Sally Staton, Dr Scott William Burgess	22 May 2023
Dr Rosemary Gilmore	PhD	A multi-centre, randomised waitlist-control trial investigating a parent assisted social skills group program for adolescents with brain injuries: The Friends Project	Associate Professor Leanne Sakzewski, Dr Zephania Tyack, Emeritus Professor Jenny Ziviani	24 August 2023
Dr Jacqueline Kiewa	PhD	The Genomics of Perinatal Depression	Dr Enda Byrne, Professor Naomi Wray	2 June 2023
Dr Jessica Killey	PhD	Supporting children with burns and their caregivers' use of non-invasive burn scar treatments	Dr Zephania Tyack, Associate Professor Megan Simons, Professor Roy Kimble	17 July 2023
Dr Kavindri Kulasinghe	PhD	ENACT (Environmental enrichment for infants, parenting with ACT): An Intervention for infants with an increased chance of Autism Spectrum Disorder	Dr Koa Whittingham, Dr Amy Mitchell	25 September 2023
Dr Huynh Thi Cam Hong Le	PhD	Traffic-related air pollution: impact on respiratory health and attitudes to self-protective behaviours amongst urban Vietnamese children	Professor Peter Sly, Associate Professor Phong Thai, Dr Dung Tri Phung, Dr Pham Le An, Dr Robert Ware	17 November 2023
Dr Swetha Philip	PhD	Relation between cerebral visual impairment in children with physical disabilities and brain structure, function and neuroplasticity	Professor Roslyn Boyd, Professor Glen Gole, Professor Andrea Guzzetta	1 March 2023

New Enrolments in 2023

Child Health Research Centre supervisors are shown in bold.

Student	Program	Project Title	Supervisors
Thomas Boissiere-O'Neill	PhD	Maternal exposure to phthalates and allergic disease in children	Professor Peter Sly, Dr Dwan Vilcins, Dr Nina Lazarevic, Professor Aimin Chen, Professor Anne-Louise Ponsonby
Elouise Comber	PhD	Implementation contexts for catheter lock solutions in paediatric critical care	Professor Amanda Ullman, Professor Samantha Keogh, Professor Josh Byrnes
Sabrina de Souza	PhD	Cultural adaptation of an mHealth app for PICC management	Professor Amanda Ullman, Professor Patricia De Rocha
Anna Dean	MPhil	Tunnelled cuffed central venous catheters for infants	Professor Amanda Ullman, Ms Rebecca Doyle
Dana Galligan	PhD	Genetics of childhood onset psychiatric symptoms, their persistence and comorbidity with other traits	Dr Enda Byrne, Professor Christel Middeldorp, Professor Naomi Wray
Victoria Gibson	MPhil	Post allergy food reintroduction	Professor Amanda Ullman, Associate Professor Jennifer Koplin
Rebecca Greenslade	PhD	Helping children to flourish by improving sleep after childhood traumatic brain injury	Professor Karen Barlow, Professor Amanda Ullman
Nicole Hewlett	PhD	Implementation and evaluation of a culturally responsive framework for assessment diagnosis of fetal alcohol spectrum disorder (FASD)	Dr Natasha Reid, Professor Gail Garvey
Lisa Hong	PhD	Relationship between Early Biomarkers of Cerebral Palsy and Neurodevelopmental Outcomes	Professor Roslyn Boyd, Professor Paul Colditz
Ajay Kevat	PhD	Application of Artificial Intelligence to Augment Clinical Decision Making in Paediatric Sleep Medicine	Dr Phil Terrill, Dr Andrew Collaro, Dr Sadasivam Suresh
Thiago Lopes	PhD	I-DECIDED for paediatrics	Professor Amanda Ullman, Professor Patricia De Rocha
Karissa Ludwig	PhD	Urinary stem cells for diagnosis and characterisation of primary bone disorders	Professor Craig Munns, Dr Adam Bournazos, Professor Di Yu
Dustin Mills	PhD	Improving the understanding of prognostic factors and reversibility in paediatric bronchiectasis in Australian children and young people.	Dr Julie Marchant, Associate Professor Anne Chang
Huy Nguyen	PhD	Expanding Data Sets to Allow Improved Critical Care for Children – Inpatient Risk Prediction	Dr Sen Wang, Associate Professor Kristen Gibbons, Dr Sainath Raman, Dr Ruihong Qiu
Jenna Nunn	PhD	Central venous access device selection for children with cancer	Professor Amanda Ullman, Dr Trisha Soosay Raj, Professor Diane Hanna
Elize O'Reilly	PhD	Food Allergy Diagnosis and Management in Late Adolescence	Associate Professor Jennifer Koplin, Professor Craig Munns
Patricia Rocha	PhD	Virtual reality for PIVC insertion in paediatric ED	Professor Amanda Ullman, Professor Patricia De Rocha
Alyssa Serratore	PhD	Understanding and incorporating the consumer voice in paediatric intensive care research	Associate Professor Kristen Gibbons, Dr Jenny O'Neill, Dr Rebecca Jenkinson, Dr Sainath Raman
Roxanne Taylor	PhD	Barriers to immunization for children and young people with mental health conditions	Professor Amanda Ullman, Dr Karin Plummer, Professor Vanessa Cobham

Ongoing Students

Child Health Research Centre supervisors are shown in bold.

Student	Program	Project Title	Supervisors
Julie Blake	PhD	Outcomes and Predictors of Adult Attachment	Professor James Scott, Dr Hannah Thomas, Emeritus Professor Jakob Najman
Archana Chacko	PhD	Respiratory Guidelines for the Management of Paediatric Neuromuscular Disease	Professor Peter Sly, Associate Professor Leanne Gauld, Dr Zephania Fiona Tyack
Camilla Prudence Davenport	PhD	Modifiable lifestyle factors and their influence on bone health in young children with cerebral palsy	Professor Peter Davies, Dr Denise Brookes, Dr Kristie Bell, Professor Roslyn Boyd
Michael Duhig	PhD	The impact of Cannabidiol on symptom management for children and adolescents with Autism Spectrum Disorder	Associate Professor Helen Heussler, Associate Professor Dawn Adams, Professor James Scott
Phoebe Duncombe	PhD	Quantifying Muscle (A)symmetry in Adolescent Idiopathic Scoliosis	Associate Professor Kylie Tucker, Dr Taylor Clemente, Professor Peter Pivonka
May Na Erng	PhD	Prevention of Fetal Alcohol Spectrum Disorder	Emeritus Professor Marie Van Driel, Dr Natasha Reid, Professor Karen Moritz
Kannan Ganeshan Kallapiran	PhD	Resilience in children exposed to trauma and adversity.	Professor James Scott, Professor Valsamma Eapen, Professor Vanessa Cobham
Daly Geagea	MPhil	Hypnotherapy for Procedural Pain and Distress in Children with Acute Burns	Professor Roy Kimble, Dr Bronwyn Griffin, Dr Zephania Tyack
Shane George	PhD	Transnasal Humified Rapid Insufflation Ventilatory Exchange (THRIVE) in Children Requiring Emergent Intubation	Professor Claire Wainwright, Professor Andreas Schibler
Lorelle Holland	PhD	Decolonising Approaches for Aboriginal and Torres Strait Islander Children with Complex Health Needs Exposed to the Youth Justice System in Australia: Reducing Incarceration and Recidivism Rates	Dr Natasha Reid, Dr Andrew Smirnov, Professor Maree Toombs
Susan Humphreys	PhD	High Flow during upper airway surgery in children	Dr Judith Hough, Professor Britta von Ungern-Sternberg, Dr Donna Franklin, Professor Andreas Schibler
Vishal Kapoor	PhD	Improving outcomes of care in an integrated model of care for complex patients within a paediatric hospital	Associate Professor Helen Heussler, Dr Caroline Nicholson
Tricia Kleidon	PhD	Optimising peripheral venous assessment and device selection in paediatrics	Professor Amanda Ullman, Professor Claire Rickard, Dr Jessica Schults, Professor Andrew Bulmer
Jia Ying Sarah Lee	PhD	Head start - Autism from the inside out	Dr Koa Whittingham, Dr Amy Mitchell
Carly Luke	PhD	Early detection of Aboriginal and Torres Strait Islander infants at high risk of adverse neurodevelopmental outcomes at 12 months corrected age (CA)	Professor Roslyn Boyd, Dr Katherine Benfer, Dr Margot Bosanquet
Kathleen Lynch	PhD	Towards the elimination of trachoma in Australia.	Associate Professor Stephen Lambert, John Kaldor, Ross Andrews, Ms Lisa Whop
Christopher Maguire	MPhil	A Study on Primary Biliary Atresia Outcomes	Professor Roy Kimble, Dr Bronwyn Griffin, Dr Zephania Tyack

Andrea McGlade	PhD	ENACT (ENvironmental enrichment for infants; parenting with ACT): A randomised controlled trial of an innovative intervention for infants at risk of Autism Spectrum Disorder	Dr Koa Whittingham, Professor Roslyn Boyd
Kate McLeod	PhD	Preschool HABIT-ILE: The impact of intensive motor training to improve gross motor function in young children with bilateral cerebral palsy.	Associate Professor Leanne Sakzewski, Dr Sarah Reedman
Brandon Meikle	PhD	Microneedling and Ablative Fractional CO2 Laser for the Treatment of Hypertrophic Burns Scars in Children	Dr Zephania Tyack, Professor Roy Kimble, Associate Professor Megan Simons, Dr Steven McPhail
Karen Mistry	PhD	Identifying earlier biomarkers for neurodevelopmental outcomes in infants born very preterm: The ability of early and term equivalent age MRI to determine 6-year motor outcomes and cerebral palsy in infants born <31 weeks gestational age	Dr Joanne George, Dr Samudragupta Bora, Professor Roslyn Boyd, Dr Alex Pagnozzi
Phoebe Ng	PhD	Adolescent Idiopathic Scoliosis: Insights into Health Profile and Paraspinal Muscle Activation	Associate Professor Kylie Tucker, Dr Andrew Philip Claus, Ms Maree Izatt, Professor Peter Pivonka
Sarker Masud Parvez	PhD	Characterising the Environmental Burden of E-waste and its Impacts on Children's and Women's Health	Professor Peter Sly, Dr Luke Knibbs, Dr Zahir Islam, Dr Rubhana Raqib
Colleen Pitt	MPhil	Skin injuries for children undergoing radiation treatment	Professor Amanda Ullman, Professor Natalie Bradford
Leeann Ramsamy	PhD	Cultural Adaptation of the LEAP-CP Program for Indigenous Infants at High Risk of Adverse Neurodevelopmental Outcomes	Dr Katherine Benfer, Professor Roslyn Boyd
Erin Sharwood	PhD	Circadian rhythm function, sleep, body composition, and metabolic health in early survivors of childhood brain tumours	Associate Professor Helen Heussler, Professor Jennifer Batch, Dr Dwan Vilcins
Sarah Steane	PhD	The effect of prenatal alcohol exposure on maternal placental and fetal micronutrients	Dr Linda Gallo, Professor Karen Moritz, Dr James Cuffe, Professor Vicki Clifton
Athena Stein	PhD	Using Non-Invasive Brain Stimulation to "Rewire" the Brain After Childhood Brain Injury	Professor Karen Barlow, Dr Kartik Iyer, Professor Paul Dux
Tze Ping Tay	PhD	Risk and mitigation of cough aerosols for people with cystic fibrosis.	Professor Scott Bell, Professor Rachel Thomson
Bianca Thompson	PhD	CP Arts: Optimising social skills in primary school-aged children with acquired brain injury and cerebral palsy through active participation in a group-based Creative and Performing Arts Social skills program	Associate Professor Leanne Sakzewski, Dr Jacqueline Barfoot
Quyen Tu	PhD	Improving drug therapy for children with sepsis and life-threatening infections	Professor Jason Roberts, Dr Jan Schlapbach, Dr Menino Jesus Jose Osbert Largos Cotta, Dr Sainath Raman
Matthew Wong	PhD	Role of airway obstruction in the development of asthma	Professor Peter Sly, Dr Tamara Blake, Dr Sadasivam Suresh, Dr Syeda Farah Zahir, Professor Zoltan Hantos
Jane Wotherspoon	PhD	Get 'SMART': a randomised controlled trial of a novel cognitive training program for children with cerebral palsy	Dr Koa Whittingham, Dr Jeanie Sheffield, Professor Roslyn Boyd

Appendix 6

CLINICAL TRIALS

The Child Health Research Centre has initiated and is part of numerous clinical trials. **Child Health Research Centre investigators are highlighted.**

Clinical Trial	Chief investigators. CHRC investigators appear in bold.
A-T Trial A phase 2A/2B placebo-controlled randomised clinical trial to test the ability of triheptanoin to protect primary airway epithelial cells obtained from patients with ataxia-telangiectasis against cell death induced by glucose deprivation.	Professor David Coman, Professor Peter Sly , Professor Claire Wainwright
Autism-TMS RCT of repetitive transcranial magnetic stimulation to improve social communication in people with autism: a multicentre trial.	Professor Peter Enticott, Professor Karen Barlow , Professor Adam Guastella, Ms Melissa Licari, Dr Nigel Rogasch, Professor Christel Middeldorp , Associate Professor Scott Clark, Associate Professor Ann-Maree Vallence, Dr Kelsie Boulton, Professor Ian Hickie, Professor Andrew Whitehouse, Emerita Professor Cherrie Galletly, Dr Gail Alvares, Dr Hakuei Fujiyama, Professor Helen Heussler , Professor Jeffrey Craig, Dr Melissa Kirkovski, Dr Natalie Mills, Professor Nicole Rinehart, Dr Peter Donaldson, Dr Talitha Ford, Professor Karen Caeyenberghs, Dr Natalia Albein-Urios, Dr Soukayna Bekkali, Professor Paul Fitzgerald
Children with Lower Limb Pain (CLLiP) An MRFF-funded study working in collaboration with families, community, and health care providers to improve the lives, wellbeing and outcomes of children and adolescents experiencing chronic lower limb pain. This research will provide the foundation for evidence-based, family-centred care in the face of chronic lower limb pain.	Professor Cylie Williams, Associate Professor Verity Pacey, Associate Professor Jane Munro, Professor Craig Munns , Associate Professor Liz Sturgiss, Dr Nicole Williams, Dr Louise Tofts, Dr Vance Locke, Professor Terry Haines, Dr Sue Brennan, Professor Stephen Maloney, Dr Mitchell Sarkies, Dr Emre Ilhan
DAISY Currently, Queensland does not provide any follow-up services to children following a severe illness or injury, despite research showing the significance of emerging, persisting impairments. The aim of the DAISY Study is to pilot a collaborative, online screening platform and General Practitioner shared-care follow-up model following PICU admission. We will explore the acceptability of this model with parents and GPs to ensure the best methods for follow-up. We will also determine those children most at risk and the best times to provide early interventions.	Associate Professor Debbie Long, Associate Professor Samudragupta Bora, Dr Belinda Dow, Associate Professor Kristen Gibbons , Dr James Best, Dr Kerri-Lyn Webb, Dr Christian Stocker, Professor Helen Liley, Dr Zephania Tyack, Professor Debra Thoms, Professor Luregn Schlapbach , Mrs Carolyn Wharton, Mrs Lori Anthony, Dr Isabel Castillo

<p>DART3: Difficult Access Requires Thought, Training and Technology</p> <p>The use of ultrasound peripheral intravenous catheter (PIVC) insertion as the first approach for patients with difficult intravenous access is recommended in international guidelines. However, implementation of ultrasound PIVC insertion in Australia is negligible. This three-phased research project aims to address the use of ultrasound PIVC insertion in metropolitan, regional and remote Australian hospitals. Funded by a NHMRC Partnership Project Grant, this project will (1) collaborate with partners and stakeholders to co-design a DIVA Ultrasound Pathway and associated implementation strategies; (2) test our DIVA Ultrasound Pathway and strategies tested in the partner hospitals; and (3) provide implementation tools to metropolitan, rural and remote settings.</p>	<p>Professor Claire Rickard, Professor Amanda Ullman, Associate Professor Nicole Marsh, Ms Tricia Kleidon, Professor Gerben Keijzers, Dr Jessica Schults, Professor Marie Cooke, Associate Professor Joshua Byrnes, Professor Robert Ware, and Professor Louise Cullen</p>
<p>E-PINO Early Prediction of Neurodevelopmental Outcomes</p> <p>E-PINO is a prospective cohort study of very preterm, small for gestational age, term Hypoxic Encephalopathy (HIE) and or stroke infants recruited at birth to examine very early clinical, MRI, HD EEG, genomics, microbiome and blood biomarkers to identify early brain injury and predict neurodevelopmental outcome (Cerebral Palsy, Autism, FASD) in three sites funded by an NHMRC Synergy program.</p>	<p>Professor Roslyn Boyd, Professor Iona Novak, Professor Stephen Rose, Professor Michael Fahey, Professor Paul Colditz, Professor Rod Hunt, Professor Nadia Badawi, Dr Jurgen Fripp, Associate Professor Leanne Sakzewski, Dr Mark Corbett</p>
<p>Environmental Determinants of Islet Autoimmunity (ENDIA) Study</p> <p>The ENDIA study is a observational cohort study involving 1500 children recruited at birth, who have a first-degree relative with T1D. The study aims to investigate the various environmental factors which contribute to islet cell autoimmunity and therefore development of T1D. Queensland Children's Hospital has been an ENDIA site since its inception.</p>	<p>Professor Simon Barry, Professor Maria Craig, Professor Peter Colman, Professor Jennifer Couper, Professor Elizabeth Davis, Associate Professor Emma Hamilton-Williams, Professor Mark Harris, Professor Leonard Harrison, Dr Aveni Haynes, Associate Professor Tony Huynh, Dr Ki Wook Kim, Professor Grant Morahan, Dr Helena Oakey, Dr Megan Penno, Professor William Rawlinson, Professor Richard Sinnott, Associate Professor Georgia Soldatos, Dr Rebecca Thomson, Associate Professor Jason Tye Din, Professor Peter J Vuillermin, Associate Professor John Wentworth</p>
<p>Evaluation of a novel sleep mat, the Sonomat, for diagnosis of sleep disordered breathing in children with neurodisability</p> <p>This study tests a new sleep mat, the Sonomat for diagnosis of sleep breathing problems in children with neurodisability. It compares the mat against gold standard diagnostic testing with a in lab sleep study.</p>	<p>Associate Professor Jasneek Chawla, Conjoint Professor Karen Waters, Dr Moya Vandeleur, Dr Maree Milross</p>
<p>FORMaT Trial</p> <p>FORMaT is an adaptive, multi-arm, platform clinical trial designed to find out which combination of medications best treat Mycobacterium abscessus (MABS) chest infections.</p>	<p>Professor Peter Sly, Dr Abdullah Tarique</p>
<p>Kids THRIVE</p> <p>The study attempts to improve oxygenation in infants and children undergoing emergency intubation. The results of this study are likely to change standard practice to improve outcome for these vulnerable patients.</p>	<p>Professor Andreas Schibler, Dr Stuart Dalziel, Professor Luregn Schlapbach, Associate Professor Jason Acworth, Associate Professor Kristen Gibbons, Professor Brenda Gannon, Professor Simon Craig, Associate Professor Shane George, Dr Ben Gelbart, Dr Simon Erickson</p>

Maternal diet rich in eggs and peanuts to reduce food allergies: a randomized controlled trial. (PrEggNut)

This research is testing whether the amount of eggs and peanuts a mother eats during pregnancy and breastfeeding has an influence on her baby's food allergy development. Participants will be randomly assigned to one of two study groups: a 'standard egg and peanut diet' group (which is typical for most women) and a 'high egg and peanut diet' group. Participants will be asked to follow the diet advice for their group from 22 weeks' gestation until their baby is 4 months of age (or until breastfeeding ceases). The outcomes of egg and peanut allergies will be compared in the babies of the two groups at 1 year of age.

Dr Debra Palmer, Professor Maria Makrides, Professor Susan Prescott, Professor Dianne Campbell, Dr Thomas Sullivan, Professor Michael Gold, **Associate Professor Jennifer Koplin**, Professor Ralph Nanan

Mixed methods randomised controlled trial of PEERS® Plus for 8-13-year-old children with brain injuries.

This study is testing a 12-week face-to-face group social skills program with a novel sociodramatic component for children with brain injuries to improve friendship skills.

Associate Professor Leanne Sakzewski, Dr Rose Gilmore, Dr Nicola Hilton, **Professor Roslyn Boyd**

Mixed methods randomised controlled trial of telehealth Program for the Enrichment of Relational Skills (PEERS®) for teens with brain injuries.

This study is testing a 14-week online group social skills program for teenagers with brain injuries to improve friendship skills.

Associate Professor Leanne Sakzewski, Dr Rose Gilmore, Dr Nicola Hilton, **Professor Roslyn Boyd**

NECTAR

Extracorporeal membrane oxygenation (ECMO) provides support for the pulmonary or cardiovascular function of children in whom the predicted mortality risk remains very high. The inevitable host inflammatory response and activation of the coagulation cascade due to the extracorporeal circuit contribute to additional morbidity and mortality in these patients. Mixing nitric oxide (NO) into the sweep gas of ECMO circuits may reduce the inflammatory and coagulation cascade activation during ECMO support.

Associate Professor Adrian Mattke, Ms Kerry Johnson, **Associate Professor Kristen Gibbons**, Associate Professor Debbie Long, Dr Jeremy Robertson, Associate Professor Prem Venugopal, Professor Antje Blumenthal, Professor Andreas Schibler, **Professor Luregn Schlapbach**

Preventing adverse events during paediatric cancer treatment: A multi-site hybrid randomised controlled trial of catheter lock solutions (The CLOCK trial)

This is a Type-1 Hybrid effectiveness-implementation two-arm, superiority, effectiveness RCT which will compare the clinical-effectiveness of routine CVAD lock solutions with T-EDTA in comparison to normal or heparinised saline locks to prevent CVAD-associated complications (CABSIs, thromboses, occlusions). Simultaneously, a mixed-methods implementation study will assess the acceptability, costs and implementation challenges of alternative CVAD lock solutions in paediatric cancer care, to prepare for translation of the intervention to practice. A 3-year recruitment period will occur across metropolitan and regional paediatric cancer care networks in Queensland, Victoria, New South Wales and New Zealand.

Professor Amanda Ullman, **Associate Professor Andy Moore**, **Dr Adam Irwin**, Professor Robert Ware, Professor Joshua Byrnes, Professor Natalie Bradford, Professor Samantha Keogh, **Ms Patricia Kleidon**, Ms Rachel Edwards, Dr John Roy

Preventing InfusAte injuries Throughout a Child's Hospitalisation (PATCH): A Type 1 Hybrid Randomised Controlled Trial

This is a multi-site, superiority Type-1 hybrid randomised controlled trial (RCT). A 2-arm, superiority, effectiveness RCT will test the effectiveness, and explore the value and implementation contexts, of an IV biosensor, compared to standard care, to detect extravasations and prevent extravasation injury. Concurrently, a mixed methods study will assess the uptake and attitudinal barriers and facilitators for implementation. The hybrid RCT will recruit and follow up across two tertiary-referral hospitals (Queensland Children's Hospital (Brisbane), Royal Brisbane and Women's Hospital (Brisbane) and one secondary-referral hospital (Sunshine Coast University Hospital (Sunshine Coast)) over a two-year period.

Professor Amanda Ullman, Associate Professor Nicole Marsh, Professor Martha Curley, Professor Fiona Coyer, Professor Mark Davies, Professor Samantha Keogh, Associate Professor Lauren Kearney, **Associate Professor Craig McBride, Ms Tricia Kleidon, Dr Deanne August, Ms Mari Takashima**, Dr Hui (Grace) Xu, **Dr Roni Cole**, Professor Robert Ware, Professor Joshua Byrnes

Primary prevention of infant food allergy: a randomised controlled trial of postnatal vitamin D supplementation. "Vitality"

VITALITY aims to determine if vitamin D supplementation leads to a reduction in food allergy in infants. The trial has enrolled more than 2,700 infants aged between six-to-12 weeks who were predominantly breastfed and not taking Vitamin D. Infants were randomised to daily vitamin D or placebo drops and allergy testing was performed at 12 months of age.

Professor Kirsten Perrett; **Associate Professor Jennifer Koplin**; Professor Anne-Louise Ponsonby, Professor Mimi Tang, Associate Professor Kim Dalziel, Professor Katherine Lee

PROP Trial

This large international multi-centre clinical trial is the first to rigorously evaluate the effectiveness of chlorhexidine-impregnated dressings in securing peripheral intravenous catheters, the most widely used invasive medical device in hospitals. Adults and children from three Australian and French hospitals will be recruited, and routine catheter care will not be impacted by the research, apart from the type of dressing used to secure the catheter. The results of the research will thus be generalisable to all patients requiring a peripheral intravenous catheter.

Dr Claire Rickard, Dr Bertrand Drugeon, **Professor Amanda Ullman**, Associate Professor Nicole Marsh, Dr Amanda Corley, Dr D. Ball, Dr C. O'Brien, **Ms Tricia Kleidon**, Dr Jérémy Guenezan, Dr R Couveur, Dr K. McCarthy, Dr S. Seguin, Dr G. Batiot, Professor Joshua Byrnes, Dr Jessica Schults, Dr S. Zahir, Dr Olivier Mimos

REDUCE

The provision of intravenous fluids is a key component of treatment for a variety of conditions within the paediatric intensive care unit (PICU). However, there is currently a lack of evidence regarding the appropriate amount of fluid that should be administered to critically ill children. Excess fluid causes oedema which can impede oxygen delivery to cells and as such, result in the escalation of respiratory support as well as increase length of PICU stay. The REDUCE trial is aiming to assess whether administering a safe restricted volume of intravenous fluids will assist in achieving better outcomes in comparison to a liberal approach to fluid management.

Dr Sainath Raman, Associate Professor Kristen Gibbons, Professor Luregn Schlapbach, Dr Sarfaraz Rahiman, Melanie Kennedy, Associate Professor Adrian Mattke, Associate Professor Prem Venugopal, Dr Craig McBride, Quyen Tu, Dr Florian Zapf, Dr Eva Kuhlwein, Jemma Woodgate, Dr Puneet Singh

Resuscitation in Paediatric Septic Shock using Mega-Dose Vitamin C and Hydrocortisone - A Randomised Controlled Multicentre Trial

Sepsis and serious infections in children are one of the most common reasons for admission to intensive care. Septic shock occurs when there is a significant decrease in the blood pumped to the body. When children are admitted to hospital with septic shock, they can receive different treatments. These include antibiotics, fluids given through their veins, and medications to support blood pressures (inotropes, steroids, vitamins) and improve blood flow to the organs. This project is assessing the use of hydrocortisone and vitamin C in children with septic shock.

Associate Professor Kristen Gibbons, Professor Luregn Schlapbach, Dr Sainath Raman, Professor Rinaldo Bellomo, Professor Warwick Butt, Associate Professor Debbie Long, Professor John Beca, Dr Simon Erickson, Dr Marino Festa, Associate Professor Shane George

The Australian Cerebral Palsy Musculoskeletal Health Network Study (AusCP MSK)

Funded by the Commonwealth Department of Health and Aged Care, this study is a longitudinal follow-up of 500 children with Cerebral Palsy (Gross Motor Function Classification Level II-IV-V) who don't ambulate independently. This five-year study will assess Musculoskeletal Health in children aged 4-9 years at entry across six sites in Qld, NSW, Vic and WA.

Professor Craig Munns, Professor Roslyn Boyd, Professor Peter Pivonka, Professor Natasha Nassar, **Professor Stewart Trost**, Associate Professor Judith Little, **Associate Professor Kylie Tucker**, Professor Joshua Burns, **Associate Professor Leanne Sakzewski**, Dr Simon Paget, Professor Nadia Badawi, Professor Robert Ware, Associate Professor Tracy Comans, Dr Kate Willoughby, Dr Katherine Langdon

Watch Me Grow

A clinical trial of an internet application (App) that empowers parents to understand their young children's developmental progress and advises them when further support for their children may be needed. The Watch Me Grow App detects delays in development early so that parents can access early support for their child to prevent later disability.

Professor Valsa Eapen, **Dr Margo Pritchard, Professor James Scott**, Professor Paul Colditz, **Professor Honey Heussler**

Appendix 7

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