

2018

Child Health Symposium



6-9 November 2018



PCH Auditorium and Telethon
Kids Institute Seminar Room

Major Sponsor





Government of **Western Australia**
Child and Adolescent Health Service



Joining Together: 2018 Child Health Symposium

Joining Together: The new Perth Children's Hospital represents a new era in paediatric care, with an integrated clinical, research and education facility. The 2018 Child Health Symposium will bring together researchers and clinical staff to focus on accelerating the translation of research into clinical practice, ensuring evidence-based clinical care, and promoting collaboration with consumers, community and other stakeholders.

Tuesday 6 th November	Wednesday 7 th November	Thursday 8 th November	Friday 9 th November
	<p>7.30-9.00 Breakfast Session Adaptive trials <i>Manda alal nyin koornt, Telethon Kids Institute</i> (Click here to register)</p>	<p>7.30-9.00 Breakfast Session Christopher Etherton-Ber: using mobile phone apps for research studies <i>Manda alal nyin koornt, Telethon Kids Institute</i> (Click here to register)</p>	<p>7.30-9.00 Breakfast Session CAHS Financial frameworks for research <i>Manda alal nyin koornt, Telethon Kids Institute</i> (Click here to register)</p>
	<p>9.00-10.30 Concurrent Oral Presentations 1. Improving outcomes for Aboriginal children and children from other vulnerable populations 2. Big Data & Precision Medicine <i>PCH Auditorium/Telethon Kids Seminar Room</i></p>	<p>9.00-10.30 Concurrent Oral Presentations 1. Reducing the burden of Childhood Diseases 2. Development, Disability and Mental Health <i>PCH Auditorium/Telethon Kids Seminar Room</i></p>	<p>9.00-10.30 Concurrent Oral Presentations 1. Working with and Learning From Consumers 2. Children as predictors of Adult Disease <i>PCH Auditorium/Telethon Kids Seminar Room</i></p>
	<p>10.30-11.00 Morning Tea</p>	<p>10.30-11.00 Morning Tea</p>	<p>10.30-11.00 Morning Tea</p>
	<p>11.00-12.30 Keynote Speaker & Panel Discussion Prof Dame Sally Davies <i>PCH Auditorium</i></p>	<p>11.00-11.40 BHP Blue Sky Award Session <i>PCH Auditorium</i></p>	<p>11.00-11.50 Plenary Speaker Catherine Hughes <i>PCH Auditorium</i></p>
<p>1.00-1.20 Opening – Peter Richmond & Jonathan Carapetis Welcome to Country – Richard Walley <i>PCH Auditorium</i></p>		<p>11.40-12.30 Think Big Project Presentations <i>PCH Auditorium</i></p>	<p>11.50-12.30 Perth Children's Hospital: Vision for a future of collaboration and innovation Peter Richmond <i>PCH Auditorium</i></p>

1.20-2.00 Plenary Speaker Prof Steve Webb <i>PCH Auditorium</i>	12.30-1.30 Lunch	12.30-1.30 Lunch	12.30-1.30 Lunch
2.00-3.00 Translation Success Stories <i>PCH Auditorium</i>	1.30-3.00 Future Clinical Scientists at PCH: RACP WA State Paediatric Training Research Award <i>PCH Auditorium</i>	1.30-2.10 Plenary Speaker Prof Susan Prescott <i>PCH Auditorium</i>	
3.00-3.30 Afternoon Tea	3.00-3.30 Afternoon Tea	2.10-3.00 Lightning Talks <i>PCH Auditorium</i>	
3.30-5.00 Concurrent Oral Presentations 1. Reducing the burden of Childhood Diseases 2. Children as predictors of Adult Disease <i>PCH Auditorium/Telethon Kids Seminar Room</i>	3.30-4.20 Lightning Talks <i>PCH Auditorium</i>	3.00-3.30 Afternoon Tea	
	4.30-6.30 Evening Poster Session & Networking <i>Collegiate Lounge, PCH</i>	3.30-4.30 The clinical trial of the future: Adaptive platform trials Ben Saville and Tom Snelling <i>PCH Auditorium</i>	
5.30-7.00 Pathways for clinical research at CAHS and TKI	6.30-8.00 Consumer Involvement Session <i>Collegiate Lounge/PCH Auditorium</i>	5.30-8.00 PCH Foundation Event (invite only) <i>PCH Auditorium/Collegiate Lounge</i>	



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Keynote Speakers are internationally acknowledged guest speakers invited to share their work, expertise and insight in current key areas of Child Health Research.



Dame Sally Davis was appointed Chief Medical Officer (CMO) for England and Chief Medical Advisor to the UK Government in March 2011, having held the post on an interim basis since June 2010. Dame Sally is an independent advisor to the UK Government on medical matters, with particular responsibilities regarding Public Health.

From 2004-2016, Dame Sally was the Chief Scientific Adviser (CSA) for the Department of Health (DH), where she was actively involved in NHS R&D from its establishment and founded the National Institute for Health Research (NIHR). In 2013, Dame Sally became a Non-Executive Director of Genomics England Ltd, wholly owned and funded by DH, to sequence 100,000 whole genomes

from NHS patients by 2017.

Dame Sally was a member of the World Health Organization (WHO) Executive Board 2014-2016 and has led delegations to WHO summits and forums since 2004. She advises many governments and organisations on health and policy, holding positions on a number of Boards.

Dame Sally advocates globally on antimicrobial resistance (AMR). She has spoken on AMR at numerous events including, the World Health Assembly side events, the G8 Science Ministers' meeting in 2015, the Global Health Security Initiative in 2015, and the UN General Assembly side event in 2016. She was chair of the 2013 AMR forum at the World Innovation Summit for Health (WISH) and is chair of the WHO Strategic and Technical Advisory Group on AMR. Most recently, Dame Sally has been appointed a co-convenor of the UN Inter-Agency Co-ordination Group on AMR, set up in response to the AMR declaration made at UNGA 2016.

Dame Sally received her DBE in 2009. She was elected Fellow of the Royal Society in 2014 and a member of the National Academy of Medicine, USA in 2015.

We are delighted to have Dame Sally to address the 2018 Child Health Research Symposium on Tuesday 7th of November and look forward to the panel discussion following her talk.



Professor Steve Webb is a Senior Staff Specialist in Intensive Care Medicine at Royal Perth Hospital and a Clinical Professor in the School of Medicine and Pharmacology and the School of Population Health at the University of Western Australia and a Clinical Professor in the Department of Epidemiology and Preventive Medicine, School of Public Health and Preventive Medicine, Monash University.

Professor Webb is a trialist with over \$60 million of research funding, including as a Chief Investigator on multiple NHMRC Project Grants and two Centre for Research Excellence grants. He has published over 100 manuscripts in peer-reviewed journals including manuscripts in *The New England Journal of Medicine*, *Journal of the American Medical Association* and the *British Medical Journal*. He is the immediate past-Chair of the ANZICS Clinical Trials Group. He is the Vice-Chair of the International Forum of Acute Care Trialists, which is a network of the world's ICU-based investigator-led clinical trials networks. He is a member of the Executive and Chair of one of four Working Groups of the International Severe Acute Respiratory Illness Consortium. This Consortium aims to provide a

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coordinated global clinical research response to emerging infectious disease including potential future pandemics.

Professor Webb is a founding member of the executive of the Australian Clinical Trials Alliance which is a representative organisation of the investigator-led clinical trials networks in Australia. He has chaired the Human Research Ethics Committee at the University of Western Australia since 2006.

We look forward to hearing about the clinical research trials and studies Professor Webb has led and used to provide evidence for change in practice and guidelines in the opening address of this year's Child Health Research Symposium.



Professor Susan Prescott is a Professor of Paediatrics in the School of Medicine at the University of Western Australia. She is a Paediatrician and an Immunologist at the Perth Children's Hospital. Susan is a Founding Director of the ORIGINS Project at the Telethon KIDS Institute, a \$26 million legacy project based at Joondalup Health Campus examining how the environment influences health throughout life, and how we can improve this. She is a former Director of the World Allergy Organisation (WAO), and founding Director of inViVO Planetary Health, an global initiative of the Worldwide Universities Network (WUN). This interdisciplinary network is focused on the links between personal and planetary health through social and ecological justice

Her interests and expertise are focused around early life risk factors for inflammation as an antecedent (and preventive target) for a broad range of noncommunicable diseases (NCD), with a particular interest in early onset NCDs such as allergy, obesity and mental health. She is the Founding President of the multidisciplinary 'DOHaD' Society in Australia and New Zealand (Developmental Origins of Health and Disease).

In addition to over 300 scientific publications, she is also author of several books for an international public audience: *The Allergy Epidemic – a Mystery of Modern Life*, *The Calling*, and *Origins - Early Life Solutions to the Modern Health Crisis*, and most recently *The Secret Life of Your Microbiome: Why Nature and Biodiversity are Essential to Health and Happiness* – 2018 Gold Medal winner of the Independent Publishers Book Awards (health), and 2017 Finalist in the Foreword Reviews Indies Book awards.

Over the course of her career Susan has raised over \$50 million in research funding as Chief Investigator. In 2009 she was awarded a prestigious Practitioner Fellowship (2009-2018) by the Australian National Health and Medical Research Council (NHMRC) and in 2010 her work was recognised in the "10 of the best" in Australia. She is involved in a wide variety of activities promoting an idea of holism, in which inclusion is upheld, diversity is celebrated and the notion of all working together to solve our shared global challenges is encouraged.



Catherine Hughes is a WA Young Australian of the Year (2016). After her youngest child Riley died from whooping cough, Catherine became an ardent campaigner for vaccination. One month old Riley was too young to be immunised against the deadly respiratory bacteria, also known as pertussis. Rather than allow her grief to overwhelm her, Catherine has channelled her energy into immunisation awareness. Within days of Riley's death, she established the "Light for Riley" Facebook page which now reaches more than 70,000 people. As a direct result of Riley's death, every State and Territory in Australia has implemented free booster shots for pregnant women to provide the best defence against whooping cough in newborn babies. With no thought of reward, Catherine has met with politicians, attended parenting expos, raised over \$70,000 for whooping cough research, instigated a viral campaign for the donation of over 45,000 vaccines to UNICEF and shared her story to ensure no other family has to live without

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their child due to a preventable disease. Catherine will present on her experiences and the strengths of consumer involvement in research.

Translational success stories demonstrate how study findings have shaped or adopted as policy/practice/guidelines. They are inspiring stories from across CAHS and Telethon Kids Institute that deserve to be celebrated as making a difference. In addition, they serve to inform other staff on how to traverse the challenges associated with translating research findings into the community.



Dr. Sally Brinkman holds an Adjunct Associate Professor position within the School of Population Health in the Faculty of Health Sciences at the University of Adelaide. Sally is a social epidemiologist with the majority of her research focusing on societies' impact on child development. Sally is the Co-Director of the Fraser Mustard Centre, an innovative new initiative between the Telethon Kids Institute and the South Australia Department of Education and Child Development aimed to improve research translation.

Sally is well known for spearheading the use of the Early Development Instrument (EDI) in Australia, being the first to pilot the instrument outside of Canada. Sally continues to work across the country to help facilitate the use of the Australian EDI (AEDI) working with communities, service providers and governments. Locally Sally consults to the Department of Children's Services Policy Directorate primarily around data-linkage, the Children's Centres Operational Group around evaluation, and the SA AEDI Team around community advocacy and research translation. Internationally, Sally works with Governments and donor organisations such as the World Bank, UNICEF, AusAID and the Bernard Van Leer Foundation working with various measures of child development for monitoring and evaluation purposes.

Sally has over 70 publications including books, chapters, monographs and journal articles covering topics such as infant mouthing behaviours, child physical activity and nutrition levels, the measurement of alcohol related violence, the evaluation of teenage pregnancy prevention programs, how child development varies across communities and the impact of socio economics and service integration on child development.



Dr. Asha Bowen is a NHMRC Early Career Fellow and clinician researcher working at Princess Margaret Hospital as a paediatric infectious diseases specialist. Her clinical role informs her research. She has recently completed her PhD at the Menzies School of Health Research in Darwin, a large randomized controlled trial on the treatment of impetigo in remote Indigenous children to find a better treatment option. At Telethon Kids Institute, she is involved in Group A streptococcus research and leads the skin team at Telethon. She also co-leads PCH based epidemiology and surveillance with Dr Chris Blyth. Asha is a member of the Australian and New

Zealand Paediatric Infectious Diseases committee and the Australasian Society of Infectious Diseases clinical research network



Dr. Gareth Baynem is a Clinical Geneticist at Genetic Services of Western Australia; an Adjunct Policy Advisor on Clinical Genomics at the WA Department of Health; Program Director of the Undiagnosed Diseases Program (UDP) WA and Head of the Western Australian Register of Developmental Anomalies.

His work focuses on Equitable health innovation and implementation, including for Aboriginal health. He is a Founding Member of the International Board of Directors of the Undiagnosed Diseases Network, Vice-Chair of the Diagnostics Scientific Committee of the International Rare Diseases Research Consortium, and a Director of the Academy for Child and Adolescent Health. He is a Clinical A/Prof at the Division of Paediatrics at the University

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of Western Australia, the Institute for Immunology and Infectious Diseases at Murdoch University, and at Spatial Sciences based at Curtin University. He is an Honorary Research Fellow at Telethon Kids Institute.

His PhD was in genetic modifiers of vaccine response in children and he leads a 3D facial analysis team. He led the implementation of a knowledge management platform for rare diseases in the WA Health System, Patient Archive. He is a Board Member of the Genetic and Rare Diseases Network, WA; a member of the Orphanet Australia National Advisory Body; and of the Rare Voices Australia Scientific and Medical Advisory Committee.

Concurrent oral presentations are selected from submitted abstracts. Each session comprises five 10 minute presentations, with an additional 5 minutes allocated to each speaker to take questions from the audience. These sessions will open with a clinical update from a specialist area, and close with a research update from a leading child health researcher

Concurrent Session theme	Theme summary	Clinical and research update presenters	Session time and location
Reducing the burden of childhood disease (2 sessions)	Many childhood diseases have an enormous social and economic burden for children and their families. This session will focus on lessons being learnt from ongoing projects to reduce the burden of disease, from the development of new treatments and therapies to projects working to improve the quality of life of the children and their families.	<i>Session 1</i> Clinical Update: Dr. Simon Erikson , ICU, PCH. Research Update: Prof. Terry Johns , Head, Telethon Kids Cancer Centre, Telethon Kids Institute.	3.30-5.00pm, PCH Auditorium, Tuesday 6th November
		<i>Session 2</i> Clinical Update: Dr. Andrew Martin , General Paediatrics, PCH. Research Update: A/Prof. Meredith Borland , Head of Emergency Department, PCH.	9.00-10.30am, PCH Auditorium, Thursday 8th November
Children as predictors of adult diseases (2 sessions)	It's well understood that many diseases that appear in childhood and through the lifespan have their origins in utero or early in child development. This session will highlight the research working to understand the relationship between the developmental influences and childhood diseases.	<i>Session 1</i> Clinical Update: Dr. Michaela Lucas , Immunologist, Sir Charles Gairdner Hospital. Research Update: Chronic and Severe Diseases Research Focus Area, Telethon Kids Institute.	3.30-5.00pm, Telethon Kids Seminar room, Level 5, PCH, Tuesday 6th November
		<i>Session 2</i> Clinical Update: Prof. Karen Simmer , Director, Neonatal Intensive Care Units, King Edward Memorial Hospital for Women and PCH. Research Update: A/Prof. Deborah Strickland , Head of Early Environment Research Focus Area, Telethon Kids Institute.	9.00-10.30am in the Telethon Kids Seminar Room, Level 5, PCH, Friday 9th November



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<p>Improving outcomes for Aboriginal children and children from other vulnerable populations</p>	<p>It is well known that health outcomes for Aboriginal children are far worse than non-Aboriginal children, and this disparity is similar with many other vulnerable populations. This session will address research working to overcome this disparity and close the gap between non-Aboriginal children and Aboriginal children or children from other vulnerable populations.</p>	<p>Clinical Update: A/Prof. Dan McAullay, Aboriginal Health Centre of Research Excellence, UWA.</p> <p>Research Update: Dr. Glenn Pearson, Head of Aboriginal Health Research Focus Area, Telethon Kids Institute.</p>	<p>9.00-10.30am, PCH Auditorium, Wednesday 7th November</p>
<p>Big Data & Precision Medicine</p>	<p>Omics approaches are providing a wide range of data about a patient's genetic & biochemical make-up, as formed by their genes, environment and lifestyle. Precision medicine involves the use of this data to impact the clinical management of a person's health and disease. This session invites presentations to discuss the use of big data in routine clinical care and research as well as its application to precision medicine.</p>	<p>Clinical Update: Dr. Nick Gottardo, Head of Oncology/Haematology, PCH.</p> <p>Research Update: Dr. Anthony Bosco, Head of Precision Medicine Centre for Children, Telethon Kids Institute.</p>	<p>9.00-10.30am, Telethon Kids Institute Seminar Room, Level 5, PCH, Wednesday 7th November</p>
<p>Development, Disability and Mental Health</p>	<p>Seven of the top 10 sources of health burden in children and adolescents are related to mental health and disability. This session will highlight basic and applied research and clinical practice that works to understand disability and mental health.</p>	<p>Clinical Update: Dr. John Wray, Child Development Service, Child and Adolescent Community Health (CACH)</p> <p>Research Update: Brain and Behaviour Research Focus Area, Telethon Kids Institute.</p>	<p>9.00-10.30am, Telethon Kids Seminar Room, Level 5, PCH, Thursday 8th November</p>
<p>Working with and Learning from Consumers</p>	<p>Evidence has shown that involving consumers in research will ensure the research conducted is relevant to the community needs and will assist with the effective translation of research to deliver improved health outcomes. This session will showcase research involving consumers throughout the research process.</p>	<p>Consumer involvement update: Anne McKenzie Head of WA Consumer and Community Health Network & Prof. Catherine Elliot, Chair, Paediatric Rehabilitation, PCH.</p>	<p>9.00-10.30am, PCH Auditorium, Friday 9th November</p>



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Pathways for clinical research at CAHS and TKI (PCH Collegiate lounge) an evening session designed to inform clinician's on the funding, resource and research project spectrum available to facilitate research training and project completion at CAHS and TKI. Senior Research staff from both organisations will present formal overviews with an opportunity for attendees to ask questions in an informal environment.

Breakfast sessions are delivered workshop style and designed to provide attendees with an overview of the current topic status with working examples. Attendees will leave the session with basic working knowledge and appreciation of the practical considerations for the topic being covered. Registration is required for these sessions (use link on program).

Adaptive trials workshop

We're hearing more and more about adaptive trials – what types of studies are they useful for? How do they work? What's needed? What are the benefits to patients and departments involved?

Dr. Ben Saville, Statistical Scientist for Berry Consultants (USA)

Creating mobile phone apps for use in WA Health research studies

This research team have successfully set-up an App for use within WA Health guidelines – to answer the how's and what's needed come along to this session.

Michael Rosenberg, Alex Shaykevich, Katherine Hankinson, A/Prof. Christopher Etherton-Bear, University of Western Australia and Royal Perth Hospital.

CAHS Financial frameworks for research

Improved financial reporting benefits us all. This session will address the little things that can make a big difference, as well as the structures available to research studies operating at CAHS.

*Matt Shears, Business Manager, Medical Services, PCH,
Rosamund Iddon, Business Manager, Telethon Children's Research Centre*

Lightning talks are 3 minutes long and limited to 5 slides for each presentation.

Presentations are run sequentially with speakers invited back to the podium for questions from the audience. Speakers are selected from submitted abstracts.

Evening poster session presentations are selected from submitted abstracts. This session enables presenters to take questions and engage in discussion with mingling attendees in an informal environment.

Think Big project presentations will showcase Telethon Kids Institute Think Big projects which have received funding this year:

Precision pathways for young children at risk of Neurodevelopmental Disorders: Early identification and adaptive intervention starting from the prenatal period
A/Prof Deb Strickland, Head, Experimental Immunology, Telethon Kids Institute

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Constructing a developmental atlas: navigating pathways that determine inception or protection against non-communicable disease

Dr Amy Finlay Jones, Alcohol and Pregnancy & FASD, Telethon Kids Institute

Dr Jenny Downs, Head, Child Disability, Telethon Kids Institute

Future Clinical Scientists at PCH: RACP WA State Paediatric Training Research Award. This annual award is available to paediatric trainees with presenters chosen from submitted abstracts.

The clinical trial of the future: Adaptive platform trials

In an age of drug resistance and multiple-ever changing drug therapies to treat disease, adaptive trials have emerged as a tenable option for service providers to deal with these challenges, and offer patients the best treatment plan. In this dedicated session we will hear from **Dr. Ben Saville** and **A/Prof. Tom Snelling** about what these type of trials involve (infrastructure, training, resources) and examples of outcome data; in addition to an overview of where PCH/CAHS sits in relation to these, and studies underway or planned for the future.



Dr. Ben Saville, PhD is a Statistical Scientist for Berry Consultants (USA) where he specializes in the design of innovative Bayesian adaptive clinical trials. He works primarily with medical device companies, pharmaceutical companies, and academic investigators to solve challenging problems via Bayesian designs, many of which are reviewed by the U.S. Food and Drug Administration (FDA). Prior to joining Berry Consultants in 2014, he



was an Assistant Professor of Biostatistics at Vanderbilt University School of Medicine where his methodological research focused on Bayesian hierarchical models, Bayesian adaptive clinical trials, and nonparametric methods for randomized clinical trials. At Vanderbilt, he collaborated extensively with medical researchers in the Department of Pediatrics and the Vanderbilt-Ingram Cancer Center, and was co-leader of an adaptive trials design workforce to promote innovative Bayesian methodology in clinical trials.

A/Prof. Tom Snelling is a paediatric infectious diseases physician, and Director of the Wesfarmers Centre of Vaccines and Infectious Diseases at the Telethon Kids Institute. He is also an Honorary Fellow at the Menzies School of Health Research, and Adjunct Associate Professor with the School of Public Health at Curtin University. He leads the Implementation Research Team which is focused on the optimal use of preventive strategies to reduce the burden of infectious diseases in children. They do this through a range of observational and interventional studies, including adaptive trials. He is deeply committed to policy implementation as a permanent member of Australia's Pharmaceutical Benefits Advisory Committee (PBAC) and previously as a permanent member of its Economics Sub Committee (ESC).

Perth Children's Hospital: Vision for a future of collaboration and innovation



Research now forms one of the four pillars of the CAHS strategic vision for the future. Paediatric research in Western Australia is well recognised nationally and internationally for its innovation and success in achieving improved patient outcomes. The on-site partnership with Telethon Kids Institute facilitates closer interaction and broadened opportunities for clinical and non-clinical researchers to answer those questions that will make a difference to patients. Led by the CAHS Director of Research, **A/Prof. Peter Richmond**, this session will provide an overview of

research support services, initiatives and infrastructure available to child health researchers (and those interested in pursuing research) across the PCH campus.