



# Department of Paediatrics & Child Health

**ANNUAL RESEARCH DAYS 2024**



*Courtesy of B. Morrow with permission*

**Programme and Abstract Book**

**Tuesday, 29<sup>th</sup> and Wednesday, 30<sup>th</sup> October 2024**

**Venue: D3 Lecture Theatre, Red Cross War Memorial Children's Hospital  
(in-person only)**

**CPD Points for Tuesday, 29<sup>th</sup> and Wednesday, 30<sup>th</sup> October 2024**  
Please sign **attendance registers** on both days to claim your CPD points.

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<b>Oral Presentations</b>	<b>Page No.</b>
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**Tuesday, 29<sup>th</sup> October 2024**

12H30 – 12H45	Welcome & Opening	R. Muloiwa
12H45 – 13H30	DPCH research year in review.	K. Webb
13H30 – 13H45	Questions	
13H45 – 13H55	Lightning presentations: C. Butters, S. Harries-Duvel, S. (Simone) Williams	
13H55 – 14H15	<b>T E A &amp; VIRTUAL POSTER VIEWING</b>	

<b>Session 1: Chairperson:</b>	<b>D Le Roux</b>
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14H20 – 14H35	Surviving Preterm Birth: Three-year health-outcomes of very low birth weight infants admitted to Groote Schuur Hospital: An Observational Study using the Vermont Oxford Network Database.	Y. Nkanuka
14H35 – 14H50	Gene expression, clinical and demographic data distinguish Kawasaki Disease from other inflammatory conditions in South African children.	T. Spracklen
14H50 – 15H05	Registry Review of Kidney Replacement Therapy for Children in South Africa.	E. Mlia Phiri
15H05 – 15H20	Lung function trajectories from birth to 6 years in an African birth cohort: Group based multi-trajectory modelling.	D. Gray
15H20 – 15H55	<b>T E A &amp; VIRTUAL POSTER VIEWING</b>	

<b>Session 2: Chairperson:</b>	<b>B Eley</b>
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16H00 – 16H45	Keynote Address – “Global trends to integrate research and clinical care in child health: the role of South African clinician scientists.”	N. Ntusi
16H45 – 17H00	Questions	

**Wednesday, 30<sup>th</sup> October 2024**

**Session 3: Chairperson:**

**S Naidoo**

08H30 – 08H45	The introduction of multi-strain probiotics to preterm infants in a regional hospital: an observational study.	M. Abrahams
08H45 – 09H00	The burden of antenatally undiagnosed major congenital anomalies in live-born babies at a busy secondary level maternity hospital in the Western Cape.	M. Amankrah
09H00 – 09H15	A descriptive study of infants who received red blood cell transfusions during 2018-2019 at Groote Schuur Hospital (GSH).	L. le Roux
09H15 – 09H30	Oropharyngeal dysphagia in neonates: Prevalence and risk factors within a South African context.	K. Porter
09H30 – 09H45	Early-life longitudinal cytokine profiles in HIV-exposed uninfected (HEU) compared to unexposed children in a South African birth cohort.	T.S. Kangwa
09H45 – 10H00	Maternal and child immune profiles are associated with measures of early-life brain inflammation in children who are HIV-exposed and uninfected: a South African birth cohort.	C. Bertran Cobo
10H00 – 10H25	<b>T E A &amp; VIRTUAL POSTER VIEWING</b>	

**Session 4: Chairperson:**

**M McCulloch**

10H30 – 10H45	Induced sputum for diagnosis of pulmonary tuberculosis (PTB) and outcomes in young children in a setting with a high burden of HIV and malnutrition.	J. Luiz
10H45 – 11H00	Acceptance of COVID-19 and Influenza vaccines during pregnancy: a prospective cross-sectional study among pregnant women attending antenatal care in Cape Town.	I. Ayouni Ep Labidi
11H00 – 11H15	Iron deficiency anaemia in mother and infants from a South African birth cohort: Prevalence and profile in the context of inflammation.	J. Ringshaw
11H15 – 11H30	Developing a home-based program to mitigate musculoskeletal complications in children with severe cerebral palsy in resource-limited settings: A modified Delphi study.	B Morrow (obo S van Aswegen)
11H30 – 11H45	A scoping review of cerebral palsy in African paediatric populations.	S. Murugasen

11H45 – 12H00 Review of liver biopsies at Red Cross War Memorial Children’s Hospital over a six year period. T. Mokoto

12H00 – 12H55 **L U N C H & VIRTUAL POSTER VIEWING**

**Session 5: Chairperson:** **S Mathews**

13H00 – 13H15 Children’s perceptions of safety, inclusion and participation in early learning: research through creative and play-based methods. M Gwele

13H15 – 13H30 A landscape analysis of paediatric and congenital heart disease services in Africa T Aldersley

13H30 – 13H45 Lightning Presentations: *S. Hendricks, N. Marozva, H. van Vollenhoven/S. (Sadeeka) Williams*

13H45 – 14H10 **BREAK & VIRTUAL POSTER VIEWING**

**Session 6: Chairperson:** **B Morrow**

14H15 – 14H45 Ethics Plenary – *“Ethical concerns for health research in the face of diminishing resources.”* S. Kling

14H45 – 15H00 Questions

15H00 – 15H30 **Feedback on Research Day presentations, with Award & Research Prizes by M Jacobs (obo guest judges: M Jacobs, J Thomas and R De Decker) & Thanks and Closing Remarks (Y Joolay)**

## **Virtual Poster Presentations**

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- BRAIN STRUCTURE OF CHEU EXPOSED TO DOLUTEGRAVIR VERSUS EFAVIRENZ: A SOUTH AFRICAN COHORT STUDY. *L.E. Bradford, J.E. Ringshaw, C.J. Wedderburn, N. Bourke, S. Williams, H. Theunissen, T. Malaba, L. Dave, N. He, H. Reynolds, A. Colbers, J. Read, D. Wang, S. Khoo, L. Myer, K.A. Donald*
- FEEDING AND SWALLOWING IN NEONATES WITH HIE: A DESCRIPTIVE STUDY. *S. Branfield, V. Norman, N. Rhoda, J. Joemat*
- THE ASSOCIATION BETWEEN MATERNAL DEPRESSION AND FRONTAL ALPHA ASYMMETRY IN INFANTS: PRELIMINARY RESULTS FROM A SOUTH AFRICAN BIRTH COHORT. *L. Davel, S. McCormick, M.R. Zieff, C. Bosco, E.T. Margolis, S.R. Williams, R. Samuels, S. Williams, C.A. Jacobs, N. Mlandu, T. Pan, Z. Madi, T. Mhlakwaphalwa, T. Mazubane, Z. Goolam Nabi, M. Miles, L.J. Gabard-Durnam, K.A. Donald*

- OUTCOMES OF PREGNANT WOMEN WITH CONGENITAL HEART DISEASE ATTENDING A MULTIDISCIPLINARY CARDIO-OBSTETRIC CLINIC IN CAPE TOWN SOUTH AFRICA. *A. Joachim, T. Aldersley, H. Edwards, K. Sliwa, A. Osman, T. Ahmed, D. Van Dyk, B. Cupido, P. Human, L. Zühlke*
- SEQUENTIAL AND PARALLEL TESTING FOR THE MICROBIOLOGICAL DIAGNOSIS OF TB DISEASE IN CHILDREN IN A PROSPECTIVE DIAGNOSTIC ACCURACY COHORT IN LOW- AND MIDDLE- INCOME COUNTRIES. *Z. Franckling-Smith, L. Olbrich, L. Larsson, I. Sabi, N.E. Ntinginya, C. Khosa, D. Banze, M. Nliwasa, E.L. Corbett, R. Semphere, V.P. Verghese, J.S. Michael, M.M. Ninan, E. Saathoff, T.D. McHugh, A. Razid, S.M. Graham, R. Song, P. Nabeta, A. Trollip, M.P. Nicol, M. Hoelscher, C. Geldmacher, N. Heinrich, H.J. Zar, On behalf of the RaPaed-AIDA-TB consortium*
- OPPORTUNITIES AND CHALLENGES FOR MANAGEMENT OF LONGITUDINAL PAEDIATRIC DATA IN LOW- AND MIDDLE-INCOME SETTINGS. *Z. Goolam Nabi, M.R. Zieff, T. Mazubane, D. Herr, K.A. Donald*
- EXPERT VOICES ON NON-SPECIALIST PAEDIATRIC EEG TRAINING. *V. Kander, J. Hardman, J. Wilmshurst*
- SLEEP PRACTICES OF SOUTH AFRICAN INFANTS AT THREE MONTHS OF AGE. *R. Negota, M. Miles, M. Zieff, T. Mazubane, T. Mhlakwaphalwa, Z. Madi, N. Mlandu, S. Rao, A. Sania, N. Pini, W. Fifer, K. Donald*
- RHEUMATIC HEART DISEASE CONTROL PROGRAMS IN AFRICA: A SYSTEMATIC REVIEW. *L. Rykief, L. Abdullahi, S. Murugasen, Z. Morar, K. Rampersadh, H. Moloji, J. Abrams, M.E. Engel, L.J. Zühlke*
- GLOBAL TRENDS AND NETWORKS IN THE LAST 20 YEARS OF RHEUMATIC HEART DISEASE RESEARCH: A BIBLIOMETRIC ANALYSIS. *T.F. Spracklen, J. Abrams, M.E. Engel, L.J. Zühlke*
- EARLY CLINICAL DESCRIPTION OF A SOUTH AFRICAN NEURODEVELOPMENTAL BIRTH COHORT. *S. (Sadeeka) Williams, C.A. Jacobs, M.R. Zieff, Z. Goolam Nabi, T. Mazubane, M. Miles, D. Herr, K.A. Donald*
- EMOTIONAL AND BEHAVIOURAL DIFFICULTIES IN CHILDREN WITH AUTISM AND OTHER NEURODEVELOPMENTAL DISORDERS IN SOUTH AFRICA. *M.R. Zieff, E. Eastman, A. Galvin, B.U. Christ, C. Fourie, S. Murugasen, J.E. Ringshaw, F. Khan, R. Sulaiman-Baradien, R. Itzikowitz, E. Sauermen, D. Goolab, A. Remtulla, Z. Bruwer, N. Mclver, B. Melly, V. de Menil, C. van der Merwe, A. Abubakar, C. Newton, E. Robinson, K.A. Donald*

- Humoral, T cell and immune gene expression response to vaccination in a small group of children with previous MIS-C.  
**Presenting Author: C. Butters**
- Advanced abdominal pregnancy at a tertiary hospital in South Africa: A case series.  
**Presenting Author: S. Harries-Duvel**
- Closing the immunity gap to Hepatitis B: A comparative analysis of immune protection and implementation costs of three vaccination strategies in first year health science students.  
**Presenting Author: S. Hendricks**
- Comparative Analysis of Oscillometry and Spirometry Trajectories in Lung Function Assessment.  
**Presenting Author: N. Marozva**
- Introducing the Akili project: The Genetic Characterization of ADHD in Kenyan and South African populations.  
*and*  
Selecting appropriate tools in clinical phenotyping of Attention Deficit Hyperactivity Disorder in a multi-nation African research study.  
**(Combined Presentation)**  
**Presenting Authors: H. van Vollenhoven / S. (Sadeeka) Williams**
- Prenatal alcohol exposure affects structural brain development in South African infants: A comparative analysis using low field and high-field MRI.  
**Presenting Author: S. (Simone) Williams**