

# 2023 WITS SCHOOL OF CLINICAL MEDICINE • BIENNIAL RESEARCH DAY



## PROGRAMME | 28 September 2023

**WELCOME AND OPENING PLENARY SESSION | VENUE: Len Miller**  
**SESSION CHAIRPERSON: Prof Maria Papathanasopoulos**

08:00-08:10	Welcome Remarks by Prof Daynia Ballot, SOCM Head of School		
08:10-08:30	<b>INVITED SPEAKER   TITLE: Building a Clinical Research Unit</b> Prof Shane Norris, University of the Witwatersrand (South Africa)		
08:30-08:50	<b>INVITED SPEAKER   TITLE: Nurturing clinician scientists at Wits University</b> Prof Sanjay Lala, University of the Witwatersrand (South Africa)		
<b>ORAL SESSION 1A   PAEDIATRICS &amp; CHILD HEALTH</b>		<b>ORAL SESSION 1B   INTERNAL MEDICINE / OPHTHALMOLOGY</b>	
<b>VENUE: LEN MILLER</b> <b>SESSION CHAIRPERSONS:</b> Prof Ashraf Coovadia and Dr Coceka Mnyani		<b>VENUE: SURGICAL SKILLS</b> <b>SESSION CHAIRPERSONS:</b> Dr Camira Pillay and Prof Graham Paget	
08:55-09:05	<b>Association between tobacco exposure, blood pressure, and arterial stiffness in South African adults and children</b> Ms Betty Nembulu	08:55-09:05	<b>Comparison of non-invasive diagnostic modalities for ocular surface squamous neoplasia at a tertiary hospital</b> Dr Roland Hollhumer
09:05-09:15	<b>Optimising blood culture collection techniques to minimize contamination rates in a public sector paediatric department</b> Dr Lucy Wilson	09:05-09:15	<b>The Histone deacetylase inhibitor SAHA (Vorinostat™) modulates metastatic properties of DLD-1 colorectal adenocarcinoma cells</b> Mr Carlo Berrino
09:15-09:25	<b>Multi-drug resistant bacterial infections among very low birthweight infants with late-onset sepsis</b> Prof Daynia Ballot	09:15-09:25	<b>The association of FGFR2 expression and splice isoforms with breast cancer subtypes</b> Dr Caroline Dickens
09:25-09:35	<b>Admission hypothermia in very low birth weight newborns at Charlotte Maxeke Johannesburg Academic Hospital</b> Dr Angidi Mauree	09:25-09:35	<b>Proteomic analyses of Huh-7 cells transfected with subgenotype A1, with and without the G1862T mutation</b> Ms Kiyasha Padarath
09:35-09:45	<b>Whole genome sequencing and molecular surveillance of influenza in South African children</b> Ms Jeanine Du Plessis	09:35-09:45	<b>Resveratrol impact on survival of Candida species and how it combats Candida albicans virulence properties</b> Ms Carla Hattingh
09:45-09:55	<b>The biochemical and radiological profile of genetic hypophosphatemic rickets and the response to conventional treatment</b> Dr Nikhila Isaac	09:45-09:55	<b>COVID-19: An evaluation of predictive scoring systems in South Africa</b> Dr Brent Prim
10:00-10:15	<b>REFRESHMENT BREAK</b>		
<b>ORAL SESSION 2A   PAEDIATRICS &amp; CHILD HEALTH</b>		<b>ORAL SESSION 2B   GENERAL SURGERY</b>	
<b>VENUE: LEN MILLER</b> <b>SESSION CHAIRPERSONS:</b> Mr Emmanuel Korsah and Prof Ziyaad Dangor		<b>VENUE: SURGICAL SKILLS</b> <b>SESSION CHAIRPERSONS:</b> Dr Theshni Govender and Prof Jerome Loveland	
10:15-10:25	<b>Epstein Barr virus risk stratification to predict post-transplant lymphoproliferative disorder in paediatric liver transplant recipients</b> Dr Priya Walabh	10:15-10:25	<b>Overview of endocrine hypertension treated in surgery at Chris Hani Baragwanath Academic Hospital</b> Prof Ifongo Bombil
10:25-10:35	<b>The impact of HIV status on the outcome of paediatric intensive care unit admissions</b> Dr Kim Whitehead	10:25-10:35	<b>A retrospective analysis of outcomes and complications of living and deceased donor split liver transplantation in Johannesburg, South Africa</b> Dr Richard Crawford
10:35-10:45	<b>Ventilatory support and surfactant use in extremely low birth weight infants over a decade, Johannesburg</b> Dr Minah Mavunda	10:35-10:45	<b>A 3D-printed artificial non-stoichiometric interpolyelectrolyte complex for tissue restoration and regeneration after liver trauma</b> Ms Kate Da Silva
10:45-10:55	<b>Introduction of dolutegravir and the early viral response seen in South African children and adolescents</b> Dr Tshiamo Mafora	10:45-10:55	<b>Spectrum of thoracic ascending aortic aneurysms at a peri-urban tertiary hospital</b> Prof Ruchika Meel
10:55-11:05	<b>The burden of poisoning in children hospitalized at a tertiary-level hospital in South Africa</b> Dr Mahtaab Khan	10:55-11:05	<b>Validation of the usefulness of risk scoring systems for predicting mortality in upper gastrointestinal bleeding</b> Ms Alexia Pullinger
11:05-11:15	<b>Care for the caregiver, how caregiver mortality affects treatment outcomes – an observational cohort study</b> Dr Josephine Keal	11:05-11:15	<b>Life expectancy following amputation for diabetic foot sepsis at a regional hospital</b> Dr Thoriso Mokoala
<b>SESSION 3   INVITED SPEAKER</b>			
<b>VENUE: LEN MILLER   SESSION CHAIRPERSON: Prof Kebashni Thandrayen</b>			
11:20-12:00	<b>Professional Identity: The role of Letsema in its formation</b> Dr Mantoa Mokhachane, University of the Witwatersrand (South Africa)		
12:00-12:40	<b>Ubuntu Inspired Revival: Fostering positive professionalism at Wits Medical School</b> Dr Mantoa Mokhachane, Dr Argentina Ingratta, Dr Leonard Muhango and Prof Richard Cooke, University of the Witwatersrand (South Africa)		
12:45-13:30	<b>LUNCH</b>		
<b>ORAL SESSION 4A   SURGERY, FAMILY MEDICINE, PSYCHIATRY &amp; NEUROSCIENCES</b>		<b>ORAL SESSION 4B   SURGERY, ORTHOPAEDIC SURGERY, OPHTHALMOLOGY AND RADIOLOGY</b>	
<b>VENUE: LEN MILLER</b> <b>SESSION CHAIRPERSONS:</b> Dr Evelyn Lumngweni and Dr Kobus Scheepers		<b>VENUE: SURGICAL SKILLS</b> <b>SESSION CHAIRPERSONS:</b> Prof Palesa Motshabi and Ms Awiwe Mgobozzi	
13:30-13:40	<b>Menstrual hygiene management in schools in South Africa: Knowledge, experience and impact on school attendance</b> Ms Bongwiwe Zulu	13:30-13:40	<b>The microbiology and resistance profiles of diabetic foot sepsis at Charlotte Maxeke Johannesburg Academic Hospital</b> Ms Simran Patel
13:40-13:50	<b>Characteristics of women initiated on opioid substitution therapy at primary healthcare level in Tshwane</b> Ms Daniela Sefora Goeieman	13:40-13:50	<b>A review of fluoroscopy guided percutaneous transpedicular spinal biopsies at a tertiary hospital</b> Dr Shivam Bhikha
13:50-14:00	<b>Population incidence of presumed community-acquired-pneumonia in South African adults across three hospitals: A spatial distribution</b> Ms Taile Portia Kgoete	13:50-14:00	<b>Correlation between corneal endothelial cell density and pterygium size: Patients at St John Eye Hospital</b> Dr Aamina Hajee

14:00-14:10	Facilitating care during and after treatment withdrawal in the intensive care unit: <b>Physicians perspectives</b> Mr Emmanuel Kwame Korsah	14:00-14:10	Shoulder and elbow function following antegrade humeral <b>nailing and plate fixation in midshaft humeral fractures</b> Dr Nabeela Kazee
14:10-14:20	<b>A novel technique for the correction of sagittal synostosis: FEASR and barrel stave osteotomy</b> Dr Wickus Neethling	14:10-14:20	<b>The epidemiology of patellar fractures in a tertiary institute in a developing country</b> Dr Yenziwe Ngema
14:20-14:30	<b>Root cause analysis of mortalities associated with acute appendicitis at a central academic hospital</b> Ms Rukudzo Chehore	14:20-14:30	
14:30-14:40	<b>Outcomes of patients with adhesive small bowel obstruction at a central hospital in Johannesburg</b> Ms Sharna Smith	14:30-14:40	
14:45-15:00	REFRESHMENT BREAK		
SESSION 5   POSTER PRESENTATIONS			
VENUE: LEN MILLER   SESSION CHAIRPERSON: Prof Pascaline Fru			
15:00-15:05	<b>The G1862T mutant of HBV induces upregulation of fibronectin expression and Wnt/β pathway</b> Dr Aurelie Deroubaix		
15:05-15:10	<b>Reporting rates and presence of dental pathology on CT brain scans at a Johannesburg Hospital</b> Dr Evidence Ndou-van Zyl		
15:10-15:15	<b>Pneumococci serotype distribution among hospitalized adults with community-acquired pneumonia in South Africa in COVID-19 era</b> Mr Grant Munkwase		
15:15-15:20	<b>Missing and deceased in South Africa: A study using 87Sr/86Sr to identify mobility and provenance</b> Mr Lawrence Hill		
SESSION 6   INVITED SPEAKER			
VENUE: LEN MILLER   SESSION CHAIRPERSON: Prof Deirdre Kruger			
15:30-16:00	<b>Statistical significance vs clinical significance</b> Prof Jonathan Levin, University of the Witwatersrand (South Africa)		
SESSION 7   KEYNOTE LECTURE AND PRIZE-GIVING			
VENUE: LEN MILLER   SESSION CHAIRPERSON: Prof Shakeera Holland			
16:00-16:45	<b>Familial hypercholesterolaemia – from a lethal disorder in childhood to a manageable dyslipidaemia today</b> Prof Derick Raal, University of the Witwatersrand (South Africa)		
16:45-17:30	<b>PRIZE-GIVING:</b> Prof Daynia Ballot & Adjunct Prof Kebashni Thandrayen		
POSTERS			
	Presenter	Paper Title	
1.	Dr Constance Adams	A retrospective evaluation of the low dose ACTH stimulation test in central adrenal insufficiency	
2.	Dr Nicholas Brink	Systematic review of long-term impacts of heat exposure in-utero	
3.	Dr Aurelie Deroubaix	The G1862T mutant of HBV induces upregulation of fibronectin expression and Wnt/β pathway	
4.	Dr Jingisile Dlamini	A study of adult aortic valve disease at a peri-urban tertiary hospital	
5.	Dr Afikile Dutywa	Trends, and determinants of operative vaginal delivery at two academic hospitals in Johannesburg, SA 2005-2019	
6.	Dr Vuyiswa Gantsho	Prevalence of depressive symptoms in adolescents living with HIV attending west rand clinics in Johannesburg	
7.	Ms Paulina Hahne	Short-term outcomes of neonates with gastrointestinal atresia admitted to a hospital in South Africa	
8	Mr Lawrence Hill	Missing and deceased in South Africa: A study using 87Sr/86Sr to identify mobility and provenance	
9.	Dr Roland Hollhumer	Demographics, clinical presentation and risk factors of ocular surface squamous neoplasia at a tertiary hospital	
10.	Ms Zakeeya Jhetam	Copper complexes induce apoptosis and increase expression of the stress-response protein, heme-oxygenase-1 in pancreatic cancer	
11.	Dr Stina Larsson	Short-term outcomes of neonates with congenital heart defects at Charlotte Maxeke Johannesburg Academic Hospital	
12.	Ms Aviwe Mgobozi	Clinical associates' education, training and professional practice in South Africa: A Scoping review	
13.	Dr Nakedi Mmabatswa	An audit on the indication of peripartum hysterectomy performed at a tertiary institution in Johannesburg	
14.	Dr Grant Munkwase	Pneumococci serotype distribution among hospitalized adults with community-acquired pneumonia in South Africa in COVID-19 era	
15.	Ms Shobana Nagaraj	Synthesis, characterization, and biological application of copper doped cobalt chromite nanoparticles	
16.	Dr Vivash Naidoo	Virtual screening and molecular dynamic simulations of Tunicamycin C as glycosylation inhibitor in colorectal cancer	
17.	Dr Evidence Ndou-van Zyl	Reporting rates and presence of dental pathology on CT brain scans at a Johannesburg Hospital	
18.	Dr Wickus Neethling	Long term outcomes of flexible endoscope assisted suture release for the correction of sagittal synostosis	
19.	Dr Wickus Neethling	Low cost production of postoperative cranial orthotic helmets for the LMIC setting	
20.	Dr Yenziwe Ngema	Micro-organism contamination of cellphones if orthopedic surgeons in a tertiary institute	
21.	Ms Kiyasha Padarath	Proteome of Huh-7 cells transfected with different (sub)genotypes of HBV prevailing in sub-Saharan Africa	
22.	Ms Nosipho Pambo	Molecular identification and flucytosine susceptibility testing of Cryptococcus from South African patients	
23.	Dr Nirav Patel	Telemedicine in the local context: A pilot study	
24.	Dr Keitumetsi Sothoane	An adult presentation of Cor Triatriatum diagnosed as post-partum cardiomyopathy: A case study	
25.	Dr Georgia Torres	Pulmonary embolus in an athlete - mechanism, assessment and management	
26.	Dr Ming-tung Wu	Acute abdominal aortic occlusion - rapid diagnosis using Point of Care Ultrasound	
27.	Dr Pin-yi Wu	An extremely hypercoagulable case of thyro-cardiac disease	