

# POCT AFRICA CONFERENCE

Improving patient health outcomes in Africa through Point of Care Testing

3<sup>rd</sup> Annual Point of Care Testing Africa Conference

11 – 12 May 2021 | Virtual Online | [conference@pocatafrica.org](mailto:conference@pocatafrica.org) | [www.pocatafrica.org](http://www.pocatafrica.org)

## PROGRAMME

### DAY 1

TUESDAY, 11 MAY 2021

#### SESSION 1

Chair Prof Preiser

Welcome & Keynote

08h00	5min	Official Welcome	Prof Tandi Matsha, SA
08h05	5min	AFCC Message	Prof Rajiv Erasmus, SA
08h10	40min	Role of POCT in changing health outcomes in Africa	Mr Nqobile Ndlovu, SA
08h50	45min	The Value of Point-of-Care Testing in the COVID-19 Landscape - <a href="#">Sponsored by Abbott</a>	Dr Erna Lenters-Westra, NLD Dr Kuku Appiah, SA Dr Evans Mathebula, SA

09h35 15min *Session Q&A (Parallel Q&A Venue)*

*Session Chair & Speakers*

09h35 15min [Break | Exhibition | Virtual Poster Display | Network](#)

#### SESSION 2

Chair Prof Matsha

Point of Care and Viral Hepatitis

09h50	30min	Performance & feasibility of integrating POC HCV with HIV prevention	Dr Andrew Scheibe, SA
10h20	20min	Rapid Diagnostic Tests for HBsAg: Experience from Namibia	Dr Cynthia Tamandjou, SA
10h40	20min	Going forward: POC tests the world is waiting for	Prof Wolfgang Preiser, SA
Oral Presentations			
11h00	15min	Oral microbiome signatures in diabetes mellitus and periodontal disease	Mrs Yvonne Prince, SA
	7min	Changes in insulin resistance and subclinical inflammation over a 7-year period in a South African population	Ms Saarah Davids, SA
	7min	Genome wide DNA methylation profiling on Lnc-RNA associated genes in hypertensive subjects of South Africa	Ms Dipuo Motshwari, SA
	7min	An Audit of Faecal occult blood testing at IALCH, Durban from January-December 2019	Dr Unathi Ngxamngxa, SA
	7min	MiR-30e-3p is down regulated in treated subjects with diabetes mellitus compared to prediabetes and screen-detected diabetes mellitus	Mr Cecil Jack Weale, SA
	7min	MODY prevalence in a mixed-ancestry population in Bellville, Western Cape, South Africa	Ms Abegail Tshivhase, SA
	7min	Drug of abuse screen testing – how has lockdown affected demand for testing?	Dr Nareshni Moodley
	7min	Survey to determine the variations of point of care test results in urine drug of abuse test	Dr Lamla Siganagna, SA
	7min	Can lateral flow immunoassays detect low affinity biomarker anti-lipid antibodies in tuberculosis?	Ms Alma Truyts, SA
	7min	False positive Abbott Panbio Covid-19 ag rapid tests	Dr Kreshalen Govender, SA
12h20	15min	The missing link: driving quality through connectivity - <a href="#">Sponsored by Patient Focus</a>	Mr Simon Ratcliffe, SA

12h35 15min Session Q&A (Parallel Q&A Venue)

Session Chair & Speakers

12h35 40min Break | Exhibition | Virtual Poster Display | Network

**SESSION 3**

Chair Prof Zemlin

Plenary Presentation

13h15 30min Analytical performance of HbA1c Point-of-care instruments: experiences of a Certified IFCC and NGSP Reference Laboratory Dr Erna Lenters-Westra, NLD

Developing programs to establish a quality POCT Service

13h45 20min Challenges of establishing a POCT Service: experience from Middle East Ms Theresa van Jaarsveld, SA

14h05 20min Development of a POCT curriculum for Africa Prof Anneliese Zemlin, SA

14h25 15min Quality management for the new generation of laboratory device - Sponsored by Patient Focus Dr Cari Hudson, SA

14h50 15min Session Q&A (Parallel Q&A Venue)

Session Chair & Speakers

14h50 15min Break | Exhibition | Virtual Poster Display | Network

**SESSION 4**

Chair Prof Sharkawy

Improving patient outcomes through innovation and improved connectivity

15h05 20min WHO Prequalification of POCT devices Dr Tongai Maponga, SA

~~15h25 15min Exploring the role of Accreditation in enhancing Point of Care Testing - Sponsored by SANAS~~ Ms Barbara Mokgethwa, SA

15h40 30min POCT Technology towards better clinical decisions Prof Rania Sharkawy, Egypt

16h10 20min How connectivity has improved patient outcomes Dr Ian Machingura, SA obo Prof Rajiv Erasmus, SA

16h30 20min Dash: a molecular diagnostic platform providing sample-to-result in 15 minutes or less Dr Sally McFall, USA

16h50 20min Reducing medical errors and enhancing patient care through pathology lead strategic activation of POCT Dr Daniel Maina, Kenya

17h10 15min Session Q&A (Parallel Q&A Venue)

Session Chair & Speakers

17h25 Day 1 Ends

**DAY 1 - PARALLEL**

**WORKSHOP**

Chair Prof Sandberg

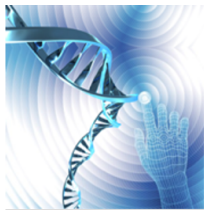
**1** Basics of Point of Care Testing: A primer for Nurses, GPs and Laboratory Professionals

15h00 30min Key essentials of a QMS for POCT Ms Theresa van Jaarsveld, SA

~~15h30 30min How do you troubleshoot a POCT device failure~~ Dr Emma English, UK

16h00 30min How would you troubleshoot a POCT device failure and inaccurate results Dr Adil Khan, USA

16h30 30min What is an EQA program and why is it important for POCT Prof Sverre Sandberg, Norway



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## PROGRAMME

### DAY 2

WEDNESDAY, 12 MAY 2021

#### SESSION 1

Chair Prof Kengne

Plenary Presentation

08h00 30min Critical Aspects of Establishing a POC Quality System outside Prof Sverre Sandberg, Norway hospitals

Leveraging POCT to improve screening and diagnosis

08h30 20min Using NT pro -BNP in the Emergency room in the management of patients - [Sponsored by Radiometer](#) Dr Guillaume Galpy, Denmark

08h50 20min Improving Outcomes in Intensive Care through POCT Prof Shayed Omar, SA

09h10 20min Community based diabetes risk screening: Invasive vs non invasive Prof Andre Pascal Kengne, SA

09h30 20min Theoretical knowledge about POCT devices and quality requirements by hospital personnel involved in POCT: Why laboratory input will add value Dr Thumeka Jalavu, SA

09h50 15min Reshaping Point-of-Care Diagnosis of Traumatic Brain Injury - Mr Marco Witteveen, NDL [Sponsored by The Scientific Group](#)

10h05 15min *Session Q&A (Parallel Q&A Venue)* *Session Chair & Speakers*

10h05 15min [Break | Exhibition | Virtual Poster Display | Network](#)

#### SESSION 2

Chair Prof Kotze

POC and Personalised Medicine

10h20 20min Development of a ParaDNA point-of-care assay for rapid detection of eight pathogenic BRCA1/2 founder variants within 1 hour assay time from sample collection to report generation Dr Armand Peeters, SA

10h40 20min A rapid point-of-care DNA assay for multi-factorial analysis of non-communicable disease pathways underlying familial, lifestyle- and therapy-induced risk Dr Nicole van der Merwe, SA

11h00 20min Extension of the clinically validated warfarin dosing ParaDNA test kit for application in resource-limited African settings Dr Stanton Hector, SA

11h20 20min First whole genomes sequenced in Africa to advance precision oncology across the continuum of care Prof Maritha Kotze, SA

POCT and Haematology

11h40 20min How simple Haematology point of care tests are changing clinical outcomes in Africa Prof Glenda Davison, SA

12h00 20min Point of care testing in Haematology – state of the Art Dr Zivanai Chapanduka, SA

Oral Presentations			
12h20	15min	Using contextualised knowing types to create a knowledge framework for curriculum development for POC programs and tests	Mr Greg Khoury, SA
12h35	15min	Possible microrna biomarkers for the diagnosis of hypertension in a South African community	Mr Don Matshazi, SA
12h50	15min	Vitamin D levels in a healthy South African population	Dr Ian Machingura, SA
13h05	15min	<i>Session Q&amp;A (Parallel Q&amp;A Venue)</i>	
13h05	40min	<i>Break   Exhibition   Virtual Poster Display   Network</i>	
<b>SESSION 3</b>			Chair Prof Pillay
POCT and COVID-19 Testing			
13h45	20min	Application of single domain antibodies (nanobodies) for POCT in Covid19	Prof Tahir Pillay, SA
14h05	20min	Experiencing the use of POCT at a tertiary hospital in India during COVID-19	Dr Sohini Sengupta, India
14h25	20min	Localisation of a novel POC qPCR system (ParaDNA) for genetic testing of non-communicable and infectious diseases with emphasis on COVID-19 test kit development and implementation	Dr Tony Bunn, SA
14h45	20min	Point of Care testing for SARS-CoV-2 infection – current challenges	Prof Diana Hardie, SA
15h05	20min	The Impact of Increasing Prevalence, False Omissions, and Uncertainty on COVID-19 Tests and the Future of Point-of-Care Testing	Dr Gerald Kost, USA
15h25	15min	<i>Break   Exhibition   Virtual Poster Display   Network</i>	
<b>SESSION 4</b>			Chair N/A
Self Testing, Quality Indicators and HbA1c methods			
15h40	20min	Patient Self Testing in Chronic Disease Management	Prof Maurice O'Kane, UK
16h00	20min	<del>Diagnosing Diabetes: Project Presentation</del>	<del>Dr Emma English, UK</del>
16h20	20min	How POCT A1C differs from Lab Assays	Prof David Sacks, USA
16h40	20min	Quality indicators for Point of Care Testing	Dr Julie Shaw, Canada
17h00	15min	<i>Session Q&amp;A (Parallel Q&amp;A Venue)</i>	
17h15	10min	Closing and Thanks	Prof Wolfgang Preiser, SA
17h25		<i>Conference Ends</i>	

## DAY 2 - PARALLEL

WORKSHOP			Chair Dr Jalavu
<b>2</b>		Establishing and co-ordinating a POC service in a group practice or hospital - a primer for GPs, nurses and hospital administrators	
14h00	60min	Role of POCT Co-ordinator and managing the POCT Service	Ms Theresa van Jaarsveld, SA
15h00	30min	Choosing the right instrument: fit for service needs	Prof Rajiv Erasmus, SA
15h30	30min	Verifying and validating the performance of a POCT instrument	Dr Erna Lenters-Westra, NLD
16h30	30min	Regulatory Compliance and Oversight	Dr Thumeka Jalavu, SA

Hosted by South African Medical Research Council (SAMRC) / Cape Peninsula University of Technology (CPUT) / Cardiometabolic Health Research Unit (CHRU) and under the auspices of the Africa Federation of Clinical Chemistry (AFCC), South African Association for Clinical Biochemistry (SAACB) and Point of Care Research Network (PCRN)

