

HELINA

CONFERENCE 2023

PROGRAMME BOOKLET

**Effective Implementation, Meaningful Use
and Sustainability of Digital Health Interventions:
The Role of Health Informatics and Imaging Informatics in Africa**

Hosted by the South African Health Informatics Association (SAHIA)

1 - 3 November 2023

Cape Town, South Africa





HELINA CONFERENCE 2023

Theme: Effective Implementation, Meaningful Use and Sustainability of Digital Health Interventions: The Role of Health Informatics and Imaging Informatics in Africa

Globally, countries are working progressively to improve the health of their populations by working towards the Sustainable Development Goals by 2030. Digital Health Interventions have been touted as an enabler to achieving the SDG goal 3 which is to ensure healthy lives and promote wellbeing for all.

In a number of ways, the increasing use of digital health has made healthcare more efficient, effective and affordable. Digital health has revolutionized the healthcare landscape globally with an estimated 50% of mobile phone users worldwide using health related apps in 2018.

HELINA 2023 will introduce a dedicated imaging informatics stream to provide opportunities to share research, learn, and collaborate on the role of imaging informatics in Africa

CONFERENCE PROGRAMME

WEDNESDAY 1 NOVEMBER 2023

	Workshops - Full Day	Workshops - 1/2 Day	Workshops - 1/2 Day
09:00 10:40	<p>"Going farther and faster together": Applying mindset, skillset and toolset for collaborative problem-solving in complex public health informatics projects</p> <p>VENUE Flamingo Restaurant</p>	<p>Time for Data Innovation in Laboratories</p> <p>VENUE Hadedra Banquet Hall</p>	<p>Program and Information System Implementation towards HIV Epidemic Control, with case study from Ethiopia</p> <p>VENUE Cape Teal Banquet Hall</p>
10:40 - 11:00 TEA BREAK			
11:00 12:30	<p>"Going farther and faster together": Applying mindset, skillset and toolset for collaborative problem-solving in complex public health informatics projects</p> <p>VENUE Flamingo Restaurant</p>	<p>Time for Data Innovation in Laboratories</p> <p>VENUE Hadedra Banquet Hall</p>	<p>Program and Information System Implementation towards HIV Epidemic Control, with case study from Ethiopia</p> <p>VENUE Cape Teal Banquet Hall</p>
12:30 - 13:30 LUNCH BREAK			
13:30 15:10	<p>"Going farther and faster together": Applying mindset, skillset and toolset for collaborative problem-solving in complex public health informatics projects</p> <p>VENUE Flamingo Restaurant</p>	<p>Creating, Leading, and Managing Informatics-Savvy Health Organizations (ISHO): A Maturity Self-Assessment and Strategic Informatics Roadmap Toolkit to Assist Public Health Organizations Realize the Potentials of Digital Technologies for Public Health.</p> <p>VENUE Hadedra Banquet Hall</p>	
15:10 - 15:30 TEA BREAK			

15:30 "Going farther and
17:00 faster together":
Applying mindset,
skillset and toolset
for collaborative
problem-solving in
complex public health
informatics projects

VENUE

Flamingo Restaurant

Creating, Leading, and Managing Informatics-
Savvy Health Organizations (ISHO): A Maturity
Self-Assessment and Strategic Informatics
Roadmap Toolkit to Assist Public Health
Organizations Realize the Potentials of Digital
Technologies for Public Health.

VENUE

Hadedra Banquet Hall

17:00 - 19:00 **HELINA General Assembly**

VENUE: Blue Crane Auditorium

THURSDAY 2 NOVEMBER 2023

09:00 - 09:15 **Opening and Welcome**

VENUE: Blue Crane Auditorium

09:15 - 10:15 **Key note address**

VENUE: Blue Crane Auditorium

10:15 - 10:35 **TEA BREAK**

	DAY 2 - Stream 1	DAY 2 - Stream 2	DAY 2 - Stream 3
10:35 10:55	Re-visiting Design and Development of a Low-Cost Computer on Wheels to support healthcare delivery for Low-Resource Settings VENUE Blue Crane Auditorium	Software Platform Architecture and Documentation Implications on Development Productivity: Case of Malawi PoC EMRS VENUE Banquet Hall	
10:55 11:10	Development of an Interactive Voice Response (Call for Life-PROVE) survey system for monitoring COVID-19 vaccination outcomes in Africa VENUE Blue Crane Auditorium	The use of Electronic Medical Record (EMR) in Ascertaining the Status of Unaccounted Aging-out of the Cohort of Children on HIV Treatment in Ethiopia VENUE Banquet Hall	
11:10 11:25	Designing an offline-first, mobile electronic medical record system for integrated antiretroviral therapy in Lilongwe, Malawi; the Community-based ART REtention and Suppression (CARES) App VENUE Blue Crane Auditorium	Tracking patients on ART with Malawi's Electronic Medical Records System VENUE Banquet Hall	

	DAY 2 - Stream 1	DAY 2 - Stream 2	DAY 2 - Stream 3
11:25 11:40	"How not to kill your patient: The role of implementation validation frameworks for sustainable digital health information systems" VENUE Blue Crane Auditorium	Transitioning from Traditional EMR to OpenEHR: A Case Study of the Impact on Clinical Workflows and Potential for Data Interoperability, and Quality Improvement Initiatives. VENUE Banquet Hall	
11:40 11:55	Need assessment for using an automated mobile based application to prevent neck and lower back pain among office worker (computer users) in Nyarugenge and Kicukiro districts. VENUE Blue Crane Auditorium	Establishing a Central Data Repository (CDR) for Human Immuno-deficiency Viruses (HIV) treatment and follow up data in Ethiopia: Description of the server-side software and infrastructure VENUE Banquet Hall	
11:55 - 12:55	LUNCH BREAK		
12:55 13:55	PANEL: Revolutionizing Community Health: Harnessing ICT for Data Collection and Reporting of HIV, Malaria, Maternal and Child Health Services in Zambia VENUE Blue Crane Auditorium	PANEL: Building Bridges: Leveraging PEPFAR's Investments to Connect HIV and COVID-19 Responses through Digital Solutions VENUE Banquet Hall	

DAY 2 - Stream 1		DAY 2 - Stream 2	DAY 2 - Stream 3
13:55 14:15	Working with users to address data quality issues: Findings from user research in the development of the Data Observation Toolkit VENUE Blue Crane Auditorium	Achieving effectiveness in result-based financing through digital transformation of the verification process: Evidence from Burundi VENUE Banquet Hall	Strengthening Health Data Governance in Africa: A Consultation on the development of an African Common Position: Transform Health VENUE Flamingo Restaurant
14:15 14:30	Discharge summaries in routine patient records: potential for meeting needs for communication between healthcare providers to support NHI VENUE Blue Crane Auditorium	Impactful approach to identify national digital health investments for scale, with an aim towards sustainability VENUE Banquet Hall	
14:30 14:45	Integrated data analytics systems to improve quality data outcomes: Case scenario from the Malawi Analytics Platform (MAP) VENUE Blue Crane Auditorium	Viability of telephonic verbal autopsies in South Africa (2021). VENUE Banquet Hall	
14:45 15:00	Measurement errors in big data: an approach with high-dimensional microarray data VENUE Blue Crane Auditorium	"Scoping Study for Electronic Medical Certification of Cause of Death in South Africa" VENUE Banquet Hall	
15:00 - 15:20 TEA BREAK			

	DAY 2 - Stream 1	DAY 2 - Stream 2	DAY 2 - Stream 3
15:20 16:20	<p>PANEL: Collective authorship: WHO, HELINA, GIZ, PEPFAR, Global Fund</p> <p>VENUE Blue Crane Auditorium</p>	<p>PANEL: Securing digital health assets through policy, tools, and practice</p> <p>VENUE Banquet Hall</p>	
16:20 16:35	<p>Implementation of a Data Warehouse for Surveillance and Immunization Program Improvement using DHIS2 in Ethiopia</p> <p>VENUE Blue Crane Auditorium</p>	<p>When Hiding in Plain Sight Matters: A Case Study on the Application of Geoprivacy for Public Health using Jupyter Notebook</p> <p>VENUE Banquet Hall</p>	
16:35 16:50	<p>The Implementation of Central Data Repository lessons from Malawi</p> <p>VENUE Blue Crane Auditorium</p>	<p>Domestication of E-Health Policies: A case study of the IGAD Health Data Sharing and Protection Policy</p> <p>VENUE Banquet Hall</p>	
16:50 17:05	<p>Implementation of Specimen Biorepository Data Information System in supporting public health research in a resource limited setting</p> <p>VENUE Blue Crane Auditorium</p>	<p>Informatics Savvy Health Organization (ISHO) Assessments: A Pathway for Health Informatics Maturity Across Africa</p> <p>VENUE Banquet Hall</p>	
17:30 - 18:30	SAHIA AGM		VENUE: Blue Crane Auditorium
19:00 - 21:00	CONFERENCE DINNER		VENUE: Bedouin Tent

FRIDAY 3 NOVEMBER 2023

08:15 - 08:30 **Opening and Welcome**

VENUE: Blue Crane Auditorium

08:30 - 09:00 **In memory of Graham Wright - Helen Wright**

VENUE: Blue Crane Auditorium

09:00 - 09:15 **In memory of Brenda Faye - Lyn Hanmer**

VENUE: Blue Crane Auditorium

DAY 3 - Stream 1

DAY3 - Stream 2

09:15
10:20

PANEL:

What can a digital quality improvement system for newborn care (Neotree) teach us about effective implementation and adaptation, patient engagement and the meaningful use of data to improve clinical care?

VENUE

Blue Crane Auditorium

PANEL:

"The role of digital health entrepreneurs in the global goods ecosystem"

VENUE

Banquet Hall

10:20 - 10:40 **TEA BREAK**

10:40 Digital Approaches to Supportive
10:55 Supervision: A Pathway to
Improving Health Services and
Data Use in Ghana

VENUE

Blue Crane Auditorium

"Implementation of Research
Electronic Data Capture (REDCap)-
based HIV Case Reporting System:
A Multi-site and Multi-tier Approach
Employed in Ethiopia"

VENUE

Banquet Hall

10:55 Introduction of Barcode labels in
11:10 the PEPFAR regions of Ghana

VENUE

Blue Crane Auditorium

Experience in Electronic Medical
Record System Transition from a
Legacy Platform to Open-source
Solution in Ethiopia

VENUE

Banquet Hall

DAY 3 - Stream 1		DAY3 - Stream 2
11:10 11:25	Adopting the Digital Adaptation Kit Approach for Documenting, Expressing and Communicating Technical Requirements for Digital Health Software Development; A Case Study VENUE Blue Crane Auditorium	Technical challenges and solutions adopted for sustainable implementation of hospital management information systems in a low-resource country: experience from Burundi VENUE Banquet Hall
11:25 11:40	Journey towards a National Health Data Dictionary in Kenya VENUE Blue Crane Auditorium	Ms Digital Health Implementation Specialist: Leveraging Google's Open Health Stack to Develop a Maternal Health Information System for Low- and Middle-Income Countries: The case of Mama's Hub VENUE Banquet Hall
11:40 12:00	Digital Health Model for South Africa's National Health Insurance: Addressing Hospital Occupancy and Emergency Care VENUE Blue Crane Auditorium	Leveraging Digital Channels to Build Health Worker Capacity at the Last Mile VENUE Banquet Hall
12:00 - 13:00 LUNCH BREAK		
13:00 14:00	PANEL: "Implementing WHO-SMART guidelines- Digital Adaptation Kits: Preliminary findings and emerging lessons from implementations within the national systems of select countries" VENUE Blue Crane Auditorium	PANEL: Integration and exchange of laboratory data for effective public health action VENUE Banquet Hall
14:00 14:15	Data Integration OPENLDR-EPTS VENUE Blue Crane Auditorium	OpenLMIS for Improving Health Commodities Tracking and Ensuring Availability: The Case of Malawi VENUE Banquet Hall

DAY 3 - Stream 1		DAY3 - Stream 2
14:15 14:30	Implementing Interoperability layer to support health information Exchange in Tanzania : Interoperability, Health Information Exchange, Health Information Systems Architecture, eLMIS, DHIS2 VENUE Blue Crane Auditorium	The Role of Telehealth in Response to Disaster Related Emergencies: The Case of Chipatala Cha Pa Foni (Health Centre by Phone) in Malawi VENUE Banquet Hall
14:30 14:45	Customizing and Adopting the AU Health Information Exchange Guidelines and Standards Framework for the Federal Ministry of Health in Ethiopia VENUE Blue Crane Auditorium	Leveraging on existing laboratory Information systems to enhance surveillance and cross border data sharing - Ebola Virus Disease testing in Kenya VENUE Banquet Hall
14:45 15:00	Electronic Medical Record System Enabled HIV Program Data-driven Decision Making in Ethiopia VENUE Blue Crane Auditorium	A comparative review of the Logical Observation Identifiers, Names and Codes (LOINC) and the National Reference Price List (NRPL) to encode the WHO List of Essential In Vitro Diagnostics (WHO-LEVD). VENUE Banquet Hall
15:00 - 15:20 TEA BREAK		
15:20 - 15:40 Conference closing		VENUE: Blue Crane Auditorium



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