



HELINA 2013 Conference
Eldoret, Kenya, 7-8 October 2013
Evidence Based Informatics for e-Health in Africa
<http://conf13.helina-online.org/>

PAN AFRICAN HEALTH INFORMATICS ASSOCIATION – HELINA

8th Health Informatics in Africa Conference – HELINA 2013

7th – 8th October 2013, Eldoret, Kenya

Evidence Based Informatics for e-Health in Africa

Preconference meetings and workshops

Saturday 05 October 2013

09:00 – 14:00 Meeting/Workshop “standardization of health extraction indicators and interoperability of open-source/free health information systems used in African”

A use case to be discussed at this meeting is posted on the conference website. The main goal is the development and implementation of a common Health Indicator Reporting Protocol for a secondary use of DHIS/EMR/EPR/EHR: export data to national health data warehouse.

The use of SDMX-HD schema coming from WHO is suggested and following that schema, the EMR/EPR/DHIS/EHR create reports (HL7, JSON, REST, etc.) that they submit to the national health data warehouse. From this national data warehouse, SDMX-HD-compliant reports are submitted to WHO.

Agenda

- 09.00 - 10.30 Introduction and goal; presentations of work done in the area of interoperability (10 min. per organization/group)
- 10.30 - 10.45 Tea/Coffee break
- 10.45 - 12.15 Brainstorming - Solution approach for the use case
- 12.15 - 13.00 Lunch
- 13.00 - 14.00 Creation of a HELINA WG and Roadmap

Sunday 06 October 2013

09:30 – 16:00 Registration

09:00 – 16:00 HELINA Strategic Plan – Task force Workshop

- 9.00 – 10.30 Brainstorming
- 10.30 – 10.45 Tea/Coffee break
- 10.45 – 12.00 Brainstorming
- 12.00 – 13.00 Lunch
- 13.00 – 14.30 Review of morning’s work and consolidation of feedback
- 14.30 – 14.45 Tea/Coffee break
- 14.45 – 17.00 Finalising the draft strategy and action plan

17:00 – 19:00 HELINA board meeting



HELINA 2013 Conference
Eldoret, Kenya, 7-8 October 2013
Evidence Based Informatics for e-Health in Africa
<http://conf13.helina-online.org/>

Monday 7 October 2013

07:00 – 08:50 Registration

09:00 – 10:00 **Opening Ceremony of HELINA 2013**

LOC Chair

SPC Chair

General Chair

Minister of Health

Key note speech “The way forward in Health Informatics research, development, and education in Africa – the HELINA strategy”, IMIA Vice President HELINA

10:00 – 10:30 Tea/Coffee break

10:30 – 12:00 **Session 1: Plenary session** (90 min)

- Louis E. Fazen, Benjamin T. Chemwolo, Julia J. Songok, Laura J. Ruhl, Carolyne Kipkoech, James M. Green, Jutus E. Ikemeri, Astrid Christoffersen-Deb: Health Informatics activities in Eldoret – Development of informational video resources for community Health volunteers in Western Kenya (invited presentation)
- Olav Poppe, Bob Joliffe, Denis Leonard Adalety, Jørn Braa: Cloud computing for health information in Africa? Comparing the case of Ghana to Kenya (research based presentation)
- Frank Verbeke, Evelyne Ndabaniwe, Stefaan van Bastelaere, Ousmane Ly, Marc Nyssen: Evaluating the impact of hospital information systems on the technical efficiency of 8 Central African hospitals using Data Envelopment Analysis (research based presentation)
- Adebowale Ojo: Organisational factors associated with electronic health Information management systems success in two Nigerian teaching hospitals (research based presentation)
- Mphatso Nyemba-Mudenda, Wallace Chigona: Stakeholder management in a community mHealth initiative in Malawi (research based presentation)

12:00 – 13:00 Lunch

13:00 – 14:10 **Session 2: Parallel sessions** (70 min)

Session 2.1: Global, national and district-level health management (I)

- Ayub Many, Raphael Pundo, Erastus Mburu, Jørn Braa: The consistency and concurrency between the Kenya HIV/AIDS Program Monitoring System (KePMs) and the national reporting system (DHIS2), 2012 (research based presentation)
- James M Kariuki, Eric-Jan Manders, Janise Richards, Tom Oluoch, Julius M Mulonzi, Davies Kimanga: Automating indicator data reporting from an EMR to aggregate data system using OpenMRS and DHIS2 (research based presentation)
- Rangarirai Matavire, Henry Chidawanyika, Jørn Braa, Ponesai Nyika, Joshua Katiyo: Shaping the evolution of the health information infrastructure in Zimbabwe (research based presentation)
- Ousmane Ly, Gustave Karara, Marc Nyssen, Frank Verbeke: Extraction automatique d'indicateurs de santé des systèmes d'informations de soins: le projet Global Health Barometer (short presentation)



HELINA 2013 Conference
Eldoret, Kenya, 7-8 October 2013
Evidence Based Informatics for e-Health in Africa
<http://conf13.helina-online.org/>

Session 2.2: Health care personnel and processes

- Gustave Karara, Frank Verbeke, Marc Nyssen: Hospital information management using open source software: results of the MIDA project in 3 hospitals in Rwanda (research based presentation)
- Mehluli Masuku, Patrick Ngulube, Henry N. Kemoni: The place of health/medical records managers in electronic health records and personal health records environments (short presentation)
- Thomas Gachuki, Edwin Ochieng, Muro Mamo, Emmaculate Agolla, Reshma Kakkar: Laboratory Informatics and AIDS Indicator Surveys (short presentation)
- Doreen M'Rithaa, Mikko Korpela, Retha de la Harpe, Sue Fawcus: Activity theory model in information systems research in practice: Theoretical framework for information communication during management of intrapartum (short presentation)
- Aanuoluwapo Olajubu, Omolola Irinoye: Nursing informatics competencies among nurses in primary, secondary and tertiary healthcare facilities in Osun State, Nigeria (short presentation)
- Sunday A. Morabu: Assessment of client waiting time (CWT) and customer perception for the clients attending care and treatment centres in district hospitals in Tanzania: Case study of Mbalizi and Tukuyu district hospitals in Mbeya region (short presentation)

14:10 – 14:20 Break

14:20 – 15:40 **Session 3: Parallel sessions** (80 min)

Session 3.1(a): Global, national and district-level health management (II)

- Roshan Hewapathirana, Shan Semuthu Rodrigo: FOSS HIS in Public Health Domain: Case study of design-reality gap and local Improvisation in global south (research based presentation)
- Adedapo Adejumo: Scaling electronic routine health information systems using centralized web based databases (short presentation)
- Vincent Shaw, Elmarie Claasen, Jenni Brown: The Changing Landscape of HIS in SA (short presentation)

Session 3.1(b): Research capacity building

- Ana Jimenez-Castellanos, Caroline Perrin, Maximo Ramirez-Robles, Brecht Ingelbeen, Victor Maojo: AFRICA BUILD: creating Web 2.0 communities of biomedical researchers (short presentation)
- Seydou Traore, Abdramane Anne, Cheick Oumar Bagayoko: The mobility of researchers and professionals of health in Africa: the AFRICA BUILD project case study (short presentation)
- Rada Hussein, Aly Khalifa, Ana Jimenez-Castellanos: State of the art of IT-enabled tools for strengthening health research capacity in Africa: Comprehensive analysis (short presentation)
- Brecht Ingelbeen, Abdrahamane Anne, Vincent Djientcheu, Ana Jimenez-Castellanos, Jitendra Khanna, Maria Zolfo: Building capacity through a social network for African researchers: Piloting two eLearning courses on Evidence Based Medicine and Research within the AFRICA BUILD project (short presentation)

Session 3.2: Technology

- Rodreck David, Adock Dube: An assessment of health information management infrastructures for communication in the Matabeleland South region borderline health institution in Zimbabwe (research based presentation)
- Dominic Duggan, Daniel Golden, Wenbin Li, Mark Mirtchouk, Mark Mschedlivi, Justice A. Muh, Benjamin Muhoza, Leonard Ndongo, David Smith, Lian Yu: Aetetes: An app generator for sustainable and secure health data collection (research based presentation)
- Rodreck David, Adock Dube: Are the terms and conditions offered by cloud-servers safe for personal health record-keeping? (short presentation)
- Carina King, J. Hall, J. Beard, E. Fottrell, J. Bird, M. Banda: Electronic data capture in a rural African setting: Evaluating experiences with different systems (short presentation)



HELINA 2013 Conference
Eldoret, Kenya, 7-8 October 2013
Evidence Based Informatics for e-Health in Africa
<http://conf13.helina-online.org/>

- Boniface Kabaso, Mikko Korpela: Architecture for health information systems interoperability in Africa (short presentation)
- Tobin Greensweig, Zachary Morrison, Yonatan Grinberg, Adam Lauz, Yaakov Gal: Developing a novel, open source EMR-integrated appointment scheduling system for the developing world (short presentation)

15:40 – 16:00 Tea/Coffee break

16:00 – 17:00 **Session 4: Parallel sessions** (60 min)

Session 4.1: Health records

- Aggrey Keny, Paul Biondich, Shaun Grannis, Martin C. Were: Adequacy and quality of immunization data in a comprehensive electronic health record system (research based presentation)
- Adock Dube, Rodreck David: An assessment of the records keeping status in some selected health institutions of Matabeleland South Province, Zimbabwe (short presentation)
- Gugulethu S. Nkala, Njabulo B. Khumalo, Patrick Ngulube, Justus Wamukoya: Electronic health records readiness: A case study of Bulawayo hospitals, Zimbabwe (short presentation)
- Ghislain Kouematchoua Tchuitcheu, Alain Nguento, Henry Luma, Marie-Patrice Halle, Engelbert Manga, Marcel Bouwa, Simeon Choukem, Ulrich Kemloh, Gilles Kom, Xavier Scolard, Vincent Djientcheu: Implementation of Electronic Patient Records in two rural district hospital and one urban university hospital in Cameroon (short presentation)

Session 4.2: Diagnosis and treatment

- Eustache Muteba A.: Towards Networked eHealth: OMaT Project (Phase I) (research based presentation)
- Frank Verbeke, Théobald Hategekimana, Gustave Karara, Ousmane Ly, Marc Nimburanira, Charles Kayembe, Marc Nyssen: Information systems for monitoring the burden of chronic diseases in public reference health facilities in Central Africa (research based presentation)
- Ralitsa Debrah, Mugendi M'Rithaa, Retha de la Harpe: Health care in sub-Saharan Africa: An explorative study of photography as a healing art (short presentation)
- Mark Velez, William Ogallo, Heather Cole-Lewis, Rimma Pivovarov, Hojjat Salmasian, Emmanuel Atuhairwe, Emmanuel Toko, Noemi Elhadad, Andrew Kanter: Factors associated with HIV prognosis in rural Uganda: Sequence-mining the medical record (short presentation)

17:30 – 18:30 HELINA General Assembly

20:00 – HELINA Conference Gala



HELINA 2013 Conference
Eldoret, Kenya, 7-8 October 2013
Evidence Based Informatics for e-Health in Africa
<http://conf13.helina-online.org/>

Tuesday 8 October 2013

08:30 – 09:20 **Session 5: Parallel sessions** (50 minutes)

Session 5.1: Strategies and policies

- David Makola, Virpi Hotti: Critical success factors for adopting enterprise architecture metamodel in the health sector: Literature review (research based presentation)
- Taurai Chikotie: ICTs and public healthcare service delivery in a developing country context: Critical factors towards addressing the health divide (research based presentation)
- Seth Afagbedzi, S Dery, R Aryeetey, S Bosomprah, H Obuobi: An overview of e-health strategy to drive Ghana's health sector goals (short presentation)

Session 5.2: Africa Build Workshop: Capacity Building in Africa

09:20 - 09:40 Tea/Coffee break

09:40 – 11:10 **Session 6: Parallel sessions** (90 min)

Session 6.1: Community health and m-Health

- Gilbert Maiga, Fred Wabwire-Mangen, Flavia Namagembe: A predictive model for mHealth adoption by healthcare workers in resource constrained environments (research based presentation)
- José António Nhavoto, Åke Grönlund: Design and implementation of a webbased application for patient management and decision support using mobile phones and geographic information system (short presentation)
- Haitham Abaza, Michael Marschollek: mHealth solutions for low and middle income countries: A literature review (short presentation)
- Maradona C. Gatara: Mobile technology-enabled healthcare service delivery systems for community health workers in Kenya: A technology-to-performance chain perspective (short presentation)
- Ephias Ruhode, Tuija Tiihonen, Izak van Zyl: An Information Systems approach to addressing health care provision challenges in socially marginalized communities: Case of Grabouw settlement in the Western Cape, South Africa (short presentation)
- Leon Grobbelaar, Dalenca Pottas, Mikko Korpela: Identifying the need for m-health: A Community Capability Approach (short presentation)
- Mohamed Sangare, Seydou Tidiane Traore, Youssuf Keita, Cheick Oumar Bagayoko: Le Projet @mkoullé : Déplacer l'information des centres de santé vers les familles (short presentation)
- Cintia Banze, Humberto Muquingue, Vania Banze, Ivan Mutacate, Mikko Korpela: Depicting the healthcare landscape around a community for a m-health intervention: A look into maternal health in KaTembe, Mozambique (short presentation)

Session 6.2: Africa Build Workshop: Capacity Building in Africa

11:10 – 11:20 Break

11:20 – 12:00 **Session 7: Plenary session: Keynote speech** “eHealth strategy development and implementation in African countries: challenges and success factors – the Kenyan example”, Ogara, Kenyan Ministry of Health

12:00 – 12:30 Lunch

12:30 – 13:20 **Session 8: Parallel sessions** (50 min)



HELINA 2013 Conference
Eldoret, Kenya, 7-8 October 2013
Evidence Based Informatics for e-Health in Africa
<http://conf13.helina-online.org/>

Session 8.1: Education

- Deborah Kioy: Online course on mHealth for sexual and reproductive health of the Geneva Foundation for Medical Education and Research (invited presentation)
- Seth Afagbedzi, S Dery, J Adziakpor, M Ramirez-Robles, A Jimenez-Castellanos, V Maojo, R Aryeetey: Africa Build educational widget for capacity building in health education and research (short presentation)
- Vincent de Paul Djientcheu, Figuim Bello, Nathalie Noumsi Tchemgui, Anne Boli, Alima Roland, Samuel Nko'o Amvene: Health Informatics and education: An example of multilateral e-learning program for post graduate trainees (short presentation)
- Retha de la Harpe, Izak van Zyl, David Makola, Mikko Korpela: The collaborative design of a Health Informatics fundamentals curriculum for the South African context (short presentation)
- Ghislain Kouematchoua Tchuitcheu, A. Nguento, M. Bouwa: Capacity Building for Rural Health Care Providers in Cameroon using a Blended Learning approach - Experience of Koegni-eHealth (short presentation)

Session 8.2: Africa Build Workshop: Capacity Building in Africa

13:20 – 14:20 **Session 9: Parallel sessions** (60 min)

Session 9.1: Concluding session of HELINA 2013: Lessons learnt and way forward

Session 9.2: Africa Build Workshop: Capacity Building in Africa

14:20 – 15:00 Tea/Coffee break

15:00 – 17:00 **Session 10: Plenary session** (120 minutes)

- **Africa Build Workshop: Capacity Building in Africa**