WG6 - Health Informatics for Development (HI4D)

2018 Report - July 2017 to May 2018
presented in Colombo, Sri Lanka for:
- IMIA Board Meeting, October 8, 2018,
- IMIA General Assembly Meeting, October 9, 2018

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Brief Background

The IMIA Health Informatics for Development Working Group (HI4DWG) mission is to advance the discipline of health informatics by fostering interaction, discussion, and multi-disciplinary collaboration among individuals and groups interested or are currently working in biomedical and health informatics primarily in developing countries. The HI4DWG aims to serve as the home, within IMIA, of health informatics professionals working in, on, or around issues being dealt or experienced in low- to middle-income countries (LMICs). Specifically, we aim to:

- Continue to define and redefine the subdomain of “health informatics for development” as relates to the larger field of “biomedical and health informatics” with a primary focus on issues affecting LMICs;
- Characterize the unique health informatics-related issues experienced by LMICs framed within local socio-economic and political contexts;
- Identify existing and potential innovations as well as lessons learned and best practices that LMICs can adopt in order to develop, build, implement, and evaluate efficient and cost-effective health information systems;
• Connect experts from developed countries with those from developing countries for potential partnerships and collaborations;
• Contribute in national and international efforts and initiatives on standards and interoperability involving LMICs;
• Be an active force in promoting the dissemination of health information technologies applicable for adoption and implementation in LMICs; and
• Provide a forum for collegial development of health informatics professionals working in, on, or around issues affecting LMICs through educational activities, academic events, projects, and publications.

Achievement - Events and projects conducted and publications completed

Several HI4DWG members had their work accepted and presented (either as paper or poster) during the 16th World Congress on Medical and Health Informatics or MedInfo 2017 with the theme "Precision Healthcare through Informatics":

• “Global eHealth, Social Business and Citizen Engagement: A Natural Convergence” found on pages 773-777 of the proceedings by Alvin Marcelo from the Philippines and colleagues from the Asia eHealth Information Network (AeHIN)
• “Improving Patient Safety through the Design and Development of a Computerized Provider Order Entry for Parenteral Nutrition Linked to a Barcode Medication Administration Record” found on pages 1038-1042 of the proceedings by Oscar I. Jauregui, Luciliana Bruchanski, Daniel A. Rizzato Lede, Carlos M. Otero, and Daniel R. Luna.
• “User-Centered Design Improves the Usability of Drug-Drug Interaction Alerts: A Validation Study in the Real Scenario” found on pages 1085-1089 of the proceedings by Daniel R. Luna, Daniel A. Rizzato Lede, Luciana Rubin, Carlos M. Otero, Juan M. Ortiz, Monica G. Garcia, Romina P. Rapisarda, Marcelo R. Risk, and Fernan Gonzalez Bernaldo de Quiros
• “Cultural problems associated with the implementation of eHealth” found on page 1213 of the proceedings by Carlos Otero, Sonia Benitez, Jakir Hossain Bhuiyan Masud, Carola Hullin Lucay Cossio, Cynthia Villalba, Selene Indarte, Paula Otero, Sebastian Guillen, Fernando Campos, Daniel Luna, Alvin Marcelo, Analia Baum, Mowafa Househ, Mowafa Househ, and Alejandro Deporte.
• “Bringing Knowledge to Users in One Click: Infobuttons in the Problem List of an EHR” found on page 1283 of the proceedings by Jose F. Rodriguez, Emilio S. Mole, Luciana Rubin, Sonia E. Benitez, Carlos M. Otero, Daniel R. Luna, and Fernan Quiros.
• “Automatic Loading of Problems Using a Comorbidities Subset: One Step to Organize and Maintain the Patient’s Problem List” found on page 1358 of the proceedings by Santiago Marquez Fosser, Alejandro Gaiera, Carlos Otero, Sonia Benitez, Daniel Luna, and Fernan Quiroz.

Participation -- Engagement and participation in IMIA and health informatics events and activities

HI4DWG members attended the 2018 Healthcare Information and Management Systems Society (HIMSS) Annual Conference and Exhibition in Las Vegas, Nevada in the USA last February 2018 to learn about cybersecurity, patient experience, pharmacy technology, data integration and interoperability, and artificial intelligence. Members met with representatives from other HI4DWG countries sent by their respective academic institutions or Ministries of Health as well as other international groups such as AeHIN. In addition, a Health IT
Collaboration workshop was held in National Taipei University of Nursing and Health Sciences (NTUNHS) in Taiwan last March 2018 and attended by around 20 HI4DWG members from Thailand, Viet Nam, Indonesia, Philippines as well as other colleagues from Malaysia and India. Several other workshops and conferences were also held in the regions of Asia and South America on various topics such as health enterprise architecture framework development for LMICs (attended by 25 participants), health ICT governance architecture framework for LMICs (attended by 30 participants), health information systems interoperability using HL7 FHIR (attended by 60 participants), health terminology standards and setting up a terminology service (attended by 15 participants), among others.

**Outreach - Recruitment and engagement of new members and target communities, publicity and representation at major events and/or on social media**

The HI4DWG leadership continues to recruit and engage new members through information sharing, collaborative networking, and conducting of multidisciplinary researches and projects. The HI4DWG leadership also plans to actively engage interested individuals and groups through the use of social media in addition to attendance in major national and international health informatics events.

**Collaboration - Working with other IMIA WG/SIGs or external organizations or institutions**

HI4DWG members continue to focus on helping small interest groups, both within national informatics organization and regional informatics networks, in developing and implementing their own projects. We also continue to work on developing the skills of our existing membership base in order to build capacity and expand our reach and influence to a wider audience. We also collaborate with members of other IMIS WGs/SIGs in reviewing papers and conference submissions and conducting workshops and tutorials, as well as international informatics networks such as AeHIN and development partners such as World Health Organization SEARO and WPRO, Asian Development Bank, World Bank, and UNICEF on informatics efforts that may affect national implementations (For example, IMIA HI4DWG chair Dr. Raymond Sarmiento is part of a select group of experts who spearheads the national health interoperability efforts for the Philippines, Viet Nam, Indonesia, and other Asian countries). Furthermore, HI4DWG members will meet in MedInfo 2019 in Lyon, France in August 2019 to review our accomplishments, reconnect with friends and collaborators, and strategically plan what our group will do and try to achieve in the next 5-10 years. Representatives from each country and/or region will continue to organize national and regional events with each representative providing a report to the HI4DWG leadership after the conduct of the event.