Institutionalizing Community Health Conference
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#HealthForAll ichc2017.org
Community - Based Information System

Role of Digital Health and Interoperability

Promoting Continuity of Care & Linkages

Vikas Dwivedi (vikas_dwivedi@jsi.com)
Senior Health Information System Advisor
Maternal and Child Survival Program
- Three-quarters of women globally now deliver with a skilled birth attendant

- This dramatic increase occurred mostly via facility deliveries

Facility deliveries by country (1990-2014)

Women often left out of good quality care

53 million women not receiving childbirth care at all
Innovation: universal health coverage

Adoption of UHC has the potential to:

- Provide financial protections & reduce catastrophic health expenditures
- Focus on the life-course & non-communicable diseases
- Reintegrate maternal health into the broader women’s health agenda
The WHO Health System Framework

System Building Blocks

- Service Delivery
- Health Workforce
- Information
- Medical Products, Vaccines & Technologies
- Financing
- Leadership / Governance

Overall Goals / Outcomes

- Access Coverage
- Improved Health (level and equity)
- Responsiveness
- Social & Financial Risk Protection
- Improved Efficiency

[Diagram showing the relationship between the building blocks and overall goals/outcomes]
FAMILY FOLDER - 
THE CENTRE-PIECE OF 
CBIS (CHIS) IN ETHIOPIA 

In Ghana
The current situation of digital health information systems

- HR-HIS
- Finance
- Mobile Applications
- dhis2
- OpenLMIS
- OpenMRS
- Bahmni
- OpenELiS
- OpenClinic
- Others in Private sectors
- Clinical Record Systems
- Hospital Information Systems
- Laboratory Information Systems
- M&E Applications
- RapidPro
- mHeros
Talking about UHC…multiple system components

Who is the Provider and what medicines were provided?

What is the place of service?

Quality
Equity
Dignity
Continuity of Care

Who is the client and what services are provided?

Who is paying and how much?
THE QUESTION?

How can Interoperability support decision-making?
Maternal Health Case Scenario

1. Pregnant woman
   - Follow-up Visits

2. Health Facility
   - Data sent to eRegistry

2. Community Health Worker
   - Data sent to eRegistry

- Interoperability layer to facilitate HIE
- Coordinated service delivery
- Two-way information flow
- Continuity of person-centred care

Text Results
- Reminder messages for medications
- Messages for follow-up visits
- Question & Answer
How will this help

1. Provide granular data on clients and treatment/medications provided
2. Provide data on various quality of care measures
3. Track drop-outs
4. Provide data on continuity of care (people centered care)
5. Integrated care (improve referral)
6. Linkages with financial data (RBF/PBF)
Rwanda Health information Exchange

- Client Registry
- HC Professional Registry
- HC Facilities Registry
- Shared Health Record
- Terminology Service
- Health Information Mediator (HEE interoperability layer)
- RapidSMS
- OpenMRS

'Ananya' for messaging to CHWs & 'Kilkari' for pregnant families

eRegistry: Pregnant woman

Achieving UHC at scale with linked insurance and clinical systems

South Africa’s: MomConnect

mHero

Liberia

India

Bangladesh

Thailand

Philippines
Tanzania’s HIE To Be Conceptual Model