The REC in Burkina Faso: Deeper Insights for Improved Healthcare System Management
In 2010, 1 in 6 children in Burkina Faso died before the age of five…

Mainly due to lack of access to quality healthcare services.
How to Provide Quality Healthcare Services?

The IMCI: Integrated Management of Childhood Illness:

• Protocol to assist healthcare professional in the diagnosis and treatment of children from 0 to 5

• Elaborated in the mid 1990s by notably the WHO and UNICEF

• Tested in over 50 countries (Africa and South East Asia) included Burkina Faso

So why do we still have these issues?
MoH
Lack of IMCI training

8% adherence rate to IMCI in 2012

Lack of motivation

IMCI not integrated into the NHIS

Lack of evaluation equipment

Inadequate IMCI tools

Medicine stockouts
Integrated eDiagnostic Approach

Digitalize the IMCI protocol

75% adherence rate to IMCI + National scale up strategy

Dimagi ICTs → MoH Implementation → Tdh Coordination → URC Quality Improv. → LSHTM Research
Deeper Insights for Improved Healthcare System Management

ieda-project.org

Iterative Approach

2 years
400+ CSPS
11 districts
2 regions
25% du pays
Deeper Insights for Improved Healthcare System Management

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REC - Registre Electronique de Consultation

Terre des hommes

Novartis Foundation

unicef

BILL & MELINDA GATES foundation
REC : a mHealth Platform

- Automated diagnostic treatment & prescription
- Statistics and charts
- Wireless data exchange (2G and 3G)
- Automated data exports and email reports
Deeper Insights for Improved Healthcare System Management

REC: a Data Platform

Dashboard Quality Improvement
Dashboard Pilotage
Dashboard Helpdesk
Dashboard Quality Assurance
CommCare
Helpdesk
REC
Coach

Applications
Dashboards
IMCI data
Helpdesk data
QI data
Improve Information Visualization
Identify issues and implement solution:

- Launch field visits to check:
  - Diagnosis process
  - REC usage

- Set up training about coughing issues and pneumonia:
  - Improve symptoms identification
Quality-focused system

47.2% of children are correctly evaluated and treated over 200,000 consultations)

LSHTM Quantitative Study

Behavior

Nurses are annoyed when their REC is out of order.

LSHTM Realistic Study

Caretakers want health workers to use the REC

LSHTM Realistic Study
Future Developments and Gains

Product Development

Integrations
User-Focused Approach

Make data accessible to end-users on the tablet

Launch a medical e-learning program for continuous training

Integrate multimedia content to help users better diagnose patients
Impact: User Level

- Better trained, more efficient and committed agents
- Increase REC usage
- 75% adherence rate to IMCI
Integrate the REC deeper into the national healthcare ecosystem

Medical integrations:
- Prenatal care
- Treatment for all patients
- Create a digital prescription connected to the local pharmacy

Financial integration:
- RBF: Result Based Financing for doctors
- Universal Coverage: Check visit and patient numbers

Technical integration:
- Connection to the local DHIS2 server
- Transfer to the national cloud
Impact: System Level

Streamlined supply chain of drugs and medicine for local pharmacies

Smarter resources allocation based on identified needs and patterns

Better health crisis management
Leverage data to improve
Patients treatment and
Healthcare system management