eHealth & mHealth

Achieving UN MDGs & Medical Device Access Equity

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Agenda

Technology Convergence exemplars
From intention to animation
Pathway forward?
eHealth (mHealth)

Definition
Information Technologies (mobile):

- Health service delivery
- Education
- Research
- Knowledge Translation
eHealth: Corner stones

- Service Delivery (Telehealth)
- Monitoring & Surveillance (H.I.)
- Knowledge exchange (eLearning)
## Medical device-eHealth Examples

<table>
<thead>
<tr>
<th>Example</th>
<th>Purpose/outcome</th>
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<tbody>
<tr>
<td>Glucose/BP/HR Monitor Personal Health Record</td>
<td>Improve personal monitoring Engage patient in self care Data for Health Professional</td>
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<tr>
<td>Pedometer GPS Tracking</td>
<td>Monitor exercise levels Encourage wellness Population: level of activities</td>
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<tr>
<td>Laboratory tests Electronic Health Record</td>
<td>Diagnosis/manage individuals Track disease manifestations Resource allocation</td>
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Challenge

Aligning innovations to Equity

- Access
- Quality & affordability
- Human development
- Sustainability
The Fifth Discipline: Senge

Technical Convergence of devices/eHealth towards Equity
Technical Convergence: Blueprint

GOAL
To ensure medical devices-eHealth innovations & development serve human development goals (UN MDG)
The Fifth Discipline: Senge

- Action (reactive)
- Behaviour (responsive)
- System (generative)

Technical Convergence of devices/eHealth towards Equity

Actors’ Involvement, harmonization & Capacity building
Stakeholder Convergence

Policy makers:
- Policy Innovation
- Health System Stewardship

Tech Experts:
- Device Innovation
- Setting new standards

Health professionals:
- Application Integration/trouble shoot

Academia:
- Best practice/evaluation
- Capacity building

Co-creation
Meeting needs
The Fifth Discipline: Senge

Action (reactive)

Behaviour (responsive)

System (generative)

Technical Convergence of devices/eHealth towards Equity

Actors’ Involvement, harmonization & Capacity building

Align Vision and goals towards medical device equity
UNMDG 2010 Report

• Health goals (IV-VI) gradual attainment
• Economic impact on poverty reduction
• Partnership commitment (VIII)
• Capacity building to achieve target

GOAL
Guide actors to achieve more than just innovation, but meet human needs and underserved communities.
Med Devices & eHealth Can...

• Applications: health access & improvement
• Surveillance: prioritization & monitoring
• Communication: transparency & engagement
• Knowledge exchange: capacity & change mx
• Device development: utilization & replication
• Evaluation: evidence to prompt improvement
Path Finding: 6 Reinforcing Steps

- Convene actors, global & local stewardship
- Engage communities, animate partnerships
- Application, evaluation, good practice
- Change mx: policy, people
- Share success, CQI
- Capacity building
- Policy, Community, & Academic Co-creation
- Convene actors, global & local stewardship
“...And what can you add to a classic? Your passionate interpretation to keep it even more contemporary.”

Lang Lang

in Mont Blanc Ad
Building a promising future

- Ensure device development in context
- Engage stakeholder groups to work together
- Evaluation framework to build evidence
- Educate good practices & replication
- Encourage investments in innovations & dissemination
- Ensure knowledge retention (now, next Gen)
UBC FoM eHealth Strategy Office

Information Technologies to support & enable academic mission:

• *Education*
• *Research*
• *Best practices*
• *Knowledge translation*

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