Influencing change and training the trainers

Advancing digital health in medical education

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Date: October 1, 2016

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Advancing digital health in medical education: Influencing change and training the trainers

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I do not have an affiliation (financial or otherwise) with a pharmaceutical, medical device or communications organization.

Je n’ai aucune affiliation (financière ou autre) avec une entreprise pharmaceutique, un fabricant d’appareils médicaux ou un cabinet de communication.
Next Generation Journey

I: Next Generation: Clinicians in Training

II: Medical Faculty Peer Leader Network, funded via Consumer Health Program

III: Accelerating eHealth Integration in Medical Education

2011

2014-16

2016
Phase I: Next Generation - Clinicians in Training

- Ensure that clinicians in training are ready to practice in an digital health-enabled environment when they graduate
- To integrate digital health concepts and use expectations into the curricula design/educational processes of the Faculties of Medicine, Nursing and Pharmacy

- **AFMC** - partner organization in Physicians-in-Training Project
  - “represents Canada's 17 faculties of medicine and is the voice of academic medicine in this country”
Phase I: AFMC Key Project Outcomes

- Developed national eHealth competencies for undergraduate medical education [http://ow.ly/4ANo304Hiy0](http://ow.ly/4ANo304Hiy0)
- Literature review, eHealth/informatics environmental scan including key recommendations
- Encouraged eHealth Scholarship:
  - Faculty Awards – 2012-2014
  - Student Awards - Virtual Patient Challenge
- Created an online community through CHEC
Phase II: AFMC Medical Faculty Peer Network

Purpose of Faculty Peer Networks: to provide mentorship, engagement and influence culture change related to teaching the effective use of technology and Consumer Health solutions in clinical practice.

9 Peer Leaders were engaged across the four workshops and advocacy activities.

Specific goals of the Medical Faculty Peer Network:
• create a series of online webinar workshops and supporting educational resources
• continue efforts to advocate for awareness and integration of eHealth concepts into the medical education curriculum
Medical Faculty Peer Leader Network

- Learn
  - Shared Info Management
  - Clinical Info Management
  - Clinical Decision Management
  - Health Communications Management

- Work

- Lead

Privacy, Confidentiality, Security

Patient-focused Digital Health Solutions

- Shared Info Management
- Clinical Info Management
- Clinical Decision Management
- Health Communications Management

- Remote Patient Monitoring
- Health Information Portals
- Personal Health Records
- eVisits, eViews, eRequests, eBooking
- eVisits
- Clinical Collaboration Simulations

- Safe Computing
- Consent to Information Release & Audit
- Health Information Legislation

- Electronic Medical Records
- Electronic Health Records
- Personal Health Records
- Patient Portals
- Enterprise Information Systems
- Clinical Data Exchange

- Asynchronous Communication (email, discussions, etc.)
- Synchronous Communication (telephony, web conferencing, etc.)
- E-Visits
- Clinical Collaboration Simulations

- Digital Professionalism
- Electronic Health Records
- Personal Health Records
- Patient Portals
- Enterprise Information Systems
- Clinical Data Exchange

- Communication of Practice, Collaborations and Team Workspaces
- Team Building, HC, Practice Planning, Clinical Decision Support, Management, Publication
- Communicating, Scheduling, Coding & Classification
- Digital Professionalism

- Primary Care Models
- Social Software for Multidisciplinary Care Planning
- Shared Decision-making Tools
- Knowledge Management Applications
- Organizing Information for Sharing – Coding & Classification
- Clininformatics
- Medical Error and eSafety
- Potential Harms of Decision Support Systems
- Medico-legal Implications of Information Technologies

- Asynchronous Communication (email, discussions, etc.)
- Synchronous Communication (telephony, web conferencing, etc.)
- E-Visits
- Clinical Collaboration Simulations

- Digital Professionalism
- Electronic Health Records
- Personal Health Records
- Patient Portals
- Enterprise Information Systems
- Clinical Data Exchange
Consumer Health Investment Program

Infoway is investing in consumer health solutions that Canadians are most likely to use and those with high patient and health system value

1. **eBooking**, allowing patients to choose appointments convenient for them, receive reminders, and make changes when needed

2. **eVisits**, including secure messaging and video visits

3. **eRenewals** so patients can request prescription renewals online

4. **Online access to health records**, e.g. laboratory test results, children’s immunizations, and other components with high value

5. **Telehomecare**, allowing the electronic transmission of patient data (e.g. symptoms, vital signs) from a patient’s home to a health care provider for monitoring and support over a specified time period
Phase II: Key Project Outcomes

Workshops

- CME accredited by BOTH the CFPC and the RCPSC

<table>
<thead>
<tr>
<th>Workshop Module</th>
<th># of participants (live &amp; post-workshop via vod/podcasts)</th>
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</thead>
<tbody>
<tr>
<td>Personal &amp; Shared Information Management</td>
<td>132</td>
</tr>
<tr>
<td>Clinical Decision Management</td>
<td>551</td>
</tr>
<tr>
<td>Clinical Information Management</td>
<td>66</td>
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<tr>
<td>Health Communication Management</td>
<td>82</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td><strong>831</strong></td>
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</tbody>
</table>
Phase II: Key Project Outcomes

Advocacy:

<table>
<thead>
<tr>
<th>Type of outreach / advocacy &amp; awareness activities</th>
<th>Total number of engagements</th>
<th>Estimated reach (individuals)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Articles, abstracts, newsletters, conferences</td>
<td>12</td>
<td>1,400</td>
</tr>
<tr>
<td>Faculty of Medicine Engagement</td>
<td>37</td>
<td>68</td>
</tr>
<tr>
<td>(Deans &amp; Key faculty at 17 medical schools)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meeting with Undergraduate Deans</td>
<td>1</td>
<td>21</td>
</tr>
<tr>
<td>Meetings with, presentations to key faculty at</td>
<td>45</td>
<td>234</td>
</tr>
<tr>
<td>medical schools and partner organizations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Totals</td>
<td><strong>95</strong></td>
<td><strong>1723</strong></td>
</tr>
</tbody>
</table>
AFMC Phase II: Evaluation Highlights

- Creation of an online Toolkit based on workshops: [http://ow.ly/ZKryB](http://ow.ly/ZKryB)
- Workshops reached educators at 15 of 17 medical faculties
- 76 percent of Peer Leaders surveyed agreed that project increased medical educator’s ability for integration and adoption of eHealth / informatics into the curriculum.
- 73 percent of colleagues/workshop participants surveyed plan to integrate workshop learnings into their teaching
- Valuable connections made with partner organizations such as:
  - The MCC, to advance assessment of eHealth competence MD licensure exams.
  - The CFPC, RCPSC, and Western U’s CPD office re: CME/CPD accreditation
Challenges

- Project Timelines
- Peer Leader & Colleague retention

Recommendations

- Improved timelines and resourcing
- Recruit more eHealth experts to 'carry the torch'; continue to engage students, residents and fellows
- Be open to interprofessional collaboration
- CPD for clinicians in the field is needed
- Involve patients / consumers
What's Next?

• Phase III goals:
  • Develop an expanded, enhanced toolkit
  • Disseminate the AFMC-Infoway Toolkit – further potential use
    • Bridge classroom and clinic with examples
    • Workshop at CCME 2017 planned
    • Promote use of the toolkit across all 17 faculties
  • Continue advocacy efforts
  • Work with the Medical Council of Canada

• Sustainability efforts

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• Go to:  
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• Visitez le  
  http://www.collegeroyal.ca/evaluations-cifr  
  afin de remplir une évaluation de la séance.

Vous courrez la chance de gagner l’un des trois chèques-cadeaux d’une valeur de 100.
Thank you

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