Mobile Health Overview

Mobile Health (MH) Working Group
May 2017
Mobile Health Work Group Co-Chairs

- Gora Datta  gora@cal2cal.com
- Matt Graham  graham.matthew@mayo.edu
- Nathan Botts  nathanbotts@westat.com
- Harry Rhodes  harryrhodes@comcast.net
- David Tao  dtao12@gmail.com

Interim Co-Chair

- Adamu Haruna
  MH has co-chair elections - Please Vote
MH Tuesday Sessions

- **Q1 – Joint (EHR Hosting)**
  - Mobile Health Overview
  - cMHAFF Project Update

- **Q3 – Security Hosting**
  - cMHAFF Collaboration (Security/CBCC/MH)
MH Wednesday Sessions

■ Q1 – Introduction & Overview
  ➢ State of Mobile Health
  ➢ MH Projects Overview

■ Q2 – Project Work
  ➢ Consumer MH Functional Framework (cMHAFF)
  ➢ MH Short Messaging Technologies (mFHAST)
  ➢ MH Application Interoperability Environmental Scan
MH Wednesday Sessions

Q3 – Discussion

➢ cMHAFF High Level Overview
➢ Finnish PHR
➢ Use of FHIR profiles and IG in Finnish PHR
➢ Acceptance criteria and testing related to Finnish PHR
➢ Compare and contrast with the needs of cMHAFF

Next steps & discussion

Q4 – Joint Session Healthcare Devices

➢ MH Projects Overview
➢ Devices Collaborations
Mobile Health Efforts

Emerging Standards

- Mobile Framework for Healthcare Adoption of Short-Message Technologies (mFHAST)
- Consumer Mobile Health Application Functional Framework - cMHAFF

Projects

- MH Interoperability Environmental Scan
- Pictorial Representation in MH
HL7 mFHAST Standard

Mobile Framework for Healthcare Adoption of Short-Message Technologies

Project of the HL7 Mobile Health Workgroup
HL7 mFHAST Goal

- To provide standards for communicating health services through short message technologies (SMTs) (e.g. SMS, Instant Message, Twitter, etc.)
- To increase opportunities for consumer / patient engagement and timely communication
- To improve communication and response time among providers of health services
mFHAST Project Preliminary Findings: by Domain

<table>
<thead>
<tr>
<th>Healthcare Domain</th>
<th>% of Total (n=75)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Health</td>
<td>24%</td>
</tr>
<tr>
<td>Research &amp; Education</td>
<td>12%</td>
</tr>
<tr>
<td>Child &amp; Maternal Health</td>
<td>10%</td>
</tr>
<tr>
<td>Mental Health</td>
<td>9%</td>
</tr>
<tr>
<td>Patient Engagement</td>
<td>9%</td>
</tr>
<tr>
<td>Cardiovascular Disease</td>
<td>8%</td>
</tr>
<tr>
<td>Immunizations</td>
<td>5%</td>
</tr>
<tr>
<td>Diabetes</td>
<td>4%</td>
</tr>
<tr>
<td>Medication</td>
<td>4%</td>
</tr>
<tr>
<td>Substance Abuse</td>
<td>3%</td>
</tr>
</tbody>
</table>

- Adverse Events
- Cancer
- Cardiovascular Disease
- Child & Maternal Health
- Dental Health
- Diabetes
- Emergency Response
- Hematology
- Immunization
- Labs
- Medication
- Mental Health
- Obesity
- Patient Engagement
- Privacy & Security
- Public Health
- Research & Education...
- Substance Abuse
mFHAST Emerging Standard

- Meeting weekly, Thursdays 2 PM EST
Consumer Mobile Health Application Functional Framework (cMHAFF) Overview and Update

Mobile Health
May 2017
Madrid WGM
Why cMHAFF? What’s the Need?

- **Target Audience:** mobile health app Developers needing guidance on building apps
- **Beneficiaries:** consumers and providers
- **Consumers** need protection, transparency and assurance regarding mobile apps. Some examples:
  - What **security** protections exist behind that “cloud?”
  - Can I **comprehend**, or even find, privacy policy and terms of...
  - Who can the app **disclose** data to?
  - What does the app **know** about me (location, microphone contacts, photos, etc.), and what can it **do** on my device?
  - Can I **access** my app data like I can under HIPAA?
  - What **usability assessment** has been performed?
  - What happens to my **data** if I delete an app?
cMHAFF Emerging Standards

- Meet weekly Mondays 5 pm EST
- Ballot for Comment Only January 2016
- Ballot Reconciliation completed
- Preparing material for new ballot for September 2017
MH Application Interoperability
Environmental Scan
Strategy

- The project will conduct an environmental literature survey of current APIs and standards.
- Identify current state of healthcare device APIs.
- Identify current APIs for exchanging data with EHR and PHR systems.
- Project will leverage university students as a educational engagement opportunity.
MH Application Interoperability Environmental Scan Update

- Meeting weekly Tuesday 4:30 – 5:30 pm EST.
- Created Interoperability Survey Template
- Initial Assessments
  - Apple Healthkit
  - Google Fit
  - Smart on FHIR
Pictorial/Visual Representation in Mobile Health
Do you know these?

STOP

No U-turn

Train signal

ADA SIGNS

MEN

WOMEN

RESTROOM

WOMEN

RESTROOM
How about these?

- Phone
- Hungry
- Toilet
- Thirsty
- Tired
- Read
- Music
- Drive
- Watch
- Feel Cold
- Feel Hot
- Pain
Do you know these?

The Issue

- Mobile platforms have become consumers’ preferred means for communication
- Mobile devices are a big driver of consumer engagement in management of their health
- Mobile apps present an opportunity to facilitate monitoring consumer safety and wellbeing, promoting maximal independence
- Standardized graphics promote safety
Questions

Mobile Health Fridays – Weekly Meeting

➢ Every Friday at 11 am EST