Mobile Health Overview

Mobile Health (MH) Working Group

January 2019
Mobile Health Work Group
Co-Chairs

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Mobile Health Projects

- Consumer Mobile Health Functional Framework (cMHAFF)
  - Moving to Normative ballot May 2020
- Mobile Frameworks for Adoption of Short-message Technologies (mFHAST) – Considering Next Steps
- Pictorial Representations in Healthcare
MH Sessions

- Wednesday Q1 – Introduction & Overview
  - State of Mobile Health
- Wednesday Q2 – cMHAFF – Deep Dive
- Wednesday Q3 – Project Work
  - Dental Interoperability Investigation Project – Todd Cooper
  - mFHAST Next Steps
MH Sessions

- Thursday Q1 – cMHAFF Working Session
- Thursday Q2 – cMHAFF Working Session
- Thursday Q3 – School Health Nursing
- Friday Q1 – Aging in Community
- Friday Q2 – Aging in Community
HL7 Consumer Mobile Health Application Functional Framework (cMHAFF) Overview and Update

Mobile Health
January 2019
HL7 San Antonio, TX WGM
cMHAFF Scope and Goals

- Provide a framework for assessment of the **common foundations** of mobile health apps
  - Product Information (disclosures/transparency)
  - Security
  - Privacy/consent/authorization
  - Risk assessment/analysis
  - Data access privileges
  - Data exchange/sharing
  - Usability & Accessibility

- Assessment could include attestation, endorsement, testing, voluntary or regulatory-driven certification

- Out of scope: specific clinical content or functionality
Why cMHAFF? What’s the Need?

- Target Audience: **mobile health app developers** needing guidance on building apps
- Beneficiaries: consumers, providers, caregivers
- Consumers need protection, transparency and assurance regarding mobile apps. Some examples:
  - What does the app **do**? What **evidence** supports it?
  - What **security** protections exist behind that “cloud?”
  - Who can the app **share** data with?
  - What does the app **know** about me (location, microphone, camera, contacts, etc.), and what can it **do** on my device?
  - Can I **access** my app data like I can under HIPAA?
cMHAFF January’18 Ballot Results

- **Passed!**
  - 48 Affirmative (30 needed to pass)
  - 0 Negative
  - 57 Abstain

- **79 specific comments**
  - 3 NEG (UPDATE: All withdrawn)
  - 76 A-S, A-Q, or A-C
  - **All** comments RESOLVED
Types of Ballot Comments

- Clarify ambiguous or confusing wording
- Consolidate similar criteria or moving to different section
- Recommend changes to conformance strength (e.g., SHOULD to SHALL or vice-versa)
- Recommend more specificity (e.g., data elements)
- Remove burdensome or un-actionable items
- Question about audience (developers vs consumers)
- Recommend more precise definition of app categories
Changes Since September’17

- Incorporation of remaining ballot comment dispositions
- Proposed Consumer Information Label
- Expanded Glossary
- Expanded and reorganized References
- U.K. PAS277 Guidelines (recommended in Sept’17 WGM)
- EU Regulatory Landscape Overview
- End-to-End Review
Informing Consumers

Disclosures
Evidence
Limitations
Contents

Terms & Conditions
Sample of U.S. Policies & Guidelines Assessed

- Health Insurance Portability and Accountability Act
- FDA Playbook on Medical Device Cybersecurity
- NIST Special Publication: 1800-1
- FTC Cross-Device Tracking Considerations
- FTC Guidance for mHealth Developers
Sample of European Guidelines Assessed

- French mHealth Good Practice Guidelines
- German Mobile Health Assessment Criteria
- Andalusian App Recommendations
- U.K. PAS277 Quality Criteria
- Finland PHR Cert Criteria
- Other EU initiatives
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
HL7 mFHAST Importance

- Brevity of message for bandwidth sensitive settings (e.g. LMIC, Rural Health)
- Brevity of message for increasing human processing and response
- Increased opportunities for low infrastructure settings
mFHAST Status

- Evolved out of mHealth Low & Middle Income Countries (LMIC) sub-workgroup activities
- HL7 project/product (normative standard) in development
- Project approved by HL7 SD April 2015
- Approved by TSC September 2015
- Comment-only ballot submitted Dec 2016
- Meeting now Thursdays @ 3pm EST in concert with the CMH AFF workgroup meetings.
Questions

Mobile Health Fridays – Weekly Meeting
  ➢ Every Friday at 11 am EST