



# Mobile Health Overview

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Mobile Health (MH) Working Group  
May 2017



# Mobile Health Work Group Co-Chairs

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

## Interim Co-Chair

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

# MH Tuesday Sessions

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- Q1 – Joint (EHR Hosting)
  - Mobile Health Overview
  - cMHAFF Project Update
  
- Q3 – Security Hosting
  - cMHAFF Collaboration (Security/CBCC/MH)

# MH Wednesday Sessions

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## ■ 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

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## ■ 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

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## ■ 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

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Project of the HL7 Mobile Health Workgroup

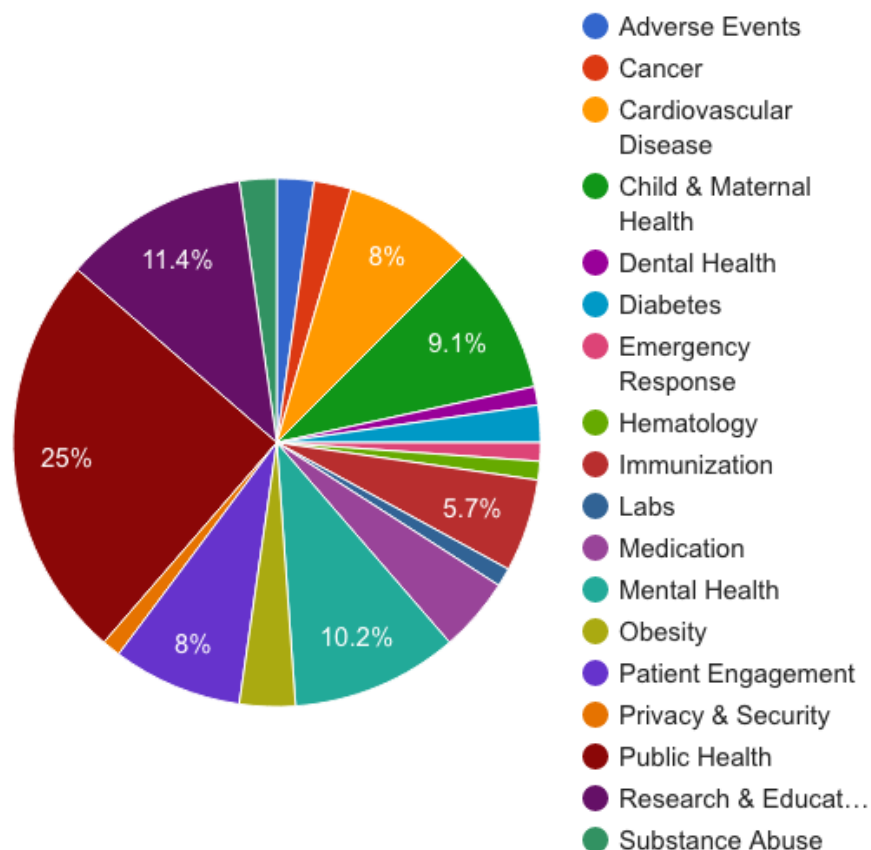
# HL7 mFHASt Goal

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- 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



% of Total (n=75)	Healthcare Domain
24%	Public Health
12%	Research & Education
10%	Child & Maternal Health
9%	Mental Health
9%	Patient Engagment
8%	CardiovascularDisease
5%	Immunizations
4%	Diabetes
4%	Medication
3%	Substance Abuse

# mFHASt Emerging Standard

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- Meeting weekly, Thursdays 2 PM EST

# Consumer Mobile Health Application Functional Framework (cMHAFF) Overview and Update

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Mobile Health  
May 2017  
Madrid WGM



# Why cMHAFF? What's the Need?

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- 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

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- 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

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# Strategy

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- 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

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- 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

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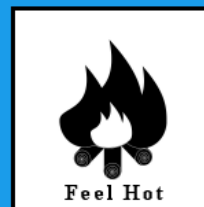
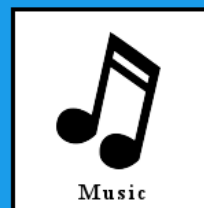
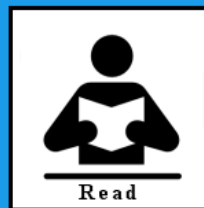
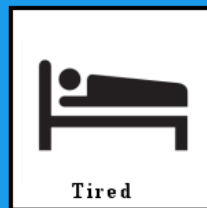
# Do you know these?



## ADA SIGNS



# How about these?



# Do you know these?



Source: [http://www.freepik.com/free-vector/52-health-icon-pack\\_710422.htm](http://www.freepik.com/free-vector/52-health-icon-pack_710422.htm)

# The Issue

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- 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

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## Mobile Health Fridays – Weekly Meeting

- Every Friday at 11 am EST