



Pictorial/Visual Representation in Mobile Health

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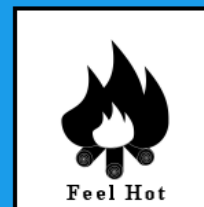
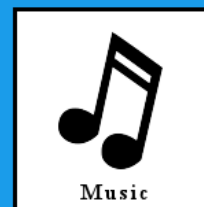
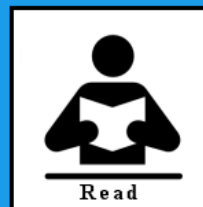
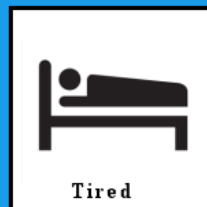
DO YOU KNOW THESE?



ADA SIGNS



HOW ABOUT THESE?



YOU GET THE DRIFT!



Source: http://www.freepik.com/free-vector/52-health-icon-pack_710422.htm

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
- Health care pictorial representations is not currently standardized
 - although ISO has many graphical standards

The Need

- Literacy / language differences represent a significant risk of adverse events / outcomes
- Imperative to think proactively about mobile graphic messaging standards
- A major difficulty is defining intuitive symbols for the abstract concepts that convey healthcare information

Standards for Symbols

- Standards exist to enable rapid, non-verbal communication in domains such as transportation, safety to name a few
- Nothing analogous yet developed for health care domain
- ISO standards.....

ISO Standards

Graphical Symbols

- ISO/TC 8
- ISO/TC 20
- ISO/TC 22
- ISO/TC 23
- ISO/TC 36
- ISO/TC 38
- ISO/TC 44
- ISO/TC 70
- ISO/TC 72
- ISO/TC 85
- ISO/TC 96
- ISO/TC 106
- ISO/TC 110
- ISO/TC 127
- ISO/TC 130
- ISO/TC 145
- ISO/TC 150
- ISO/TC 184
- ISO/TC 188
- ISO/TC 210
- ISO/TC 214
- ISO/IEC JTC 1/SC 35

Standards Development

- Is there a perceived need to develop a standard for pictorial representation of health-related concepts?
- If so, the HL7 Mobile Health workgroup is the logical place to start:
 - Small form factor
 - Changing form factor - wearables
 - AR/VR

Potential applications

- Mobile devices could enable symbols related to healthcare needs to be accessed even on a locked screen
- Initial applications:
 - Behavioral health
 - School health
 - Child health
 - Elder health

Next Steps

- Define end-users and business need
- MH WG continues to research into this area
- MH WG consults with other HL7 WGs and explores partnership with external entities
- Seeking Volunteers to develop a PSS (project scope statement)
- Time frame: Oct – Dec 2016

THANK YOU!

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Additional Resources

- Americans with Disabilities Act (ADA)—A **law** that regulates sign usage, placement, colors, type, etc.
- Civil Rights Act —A **law** that prohibits discrimination or exclusion
- International Organization for Standardization--ISO/TC 145 defined internationally accepted requirements for symbols
- Unites States Pharmacopeia (USP) standardized graphic images to convey information about medications
- American National Standards Institute (ANSI)