

# Mobile Health Platforms



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| <b>Your Name</b>   | N. Keshava, C. Carey, D. Hudson, W. Malik   |
| <b>Describe your idea and position:</b>  | <p>The development of mobile technology as platforms for measuring physiological and behavioral parameters is a rapidly growing area. While there is great interest in using mobile technology platforms to collect persistent measurement, translating those measurements reliably into clinical insight is a major leap.</p> <p>Areas of potential interest and applicability:</p> <ol style="list-style-type: none"> <li>1. Inference of physiological parameters during clinical trials as possible endpoints and surrogate biomarkers;</li> <li>2. Estimation of cognitive state (e.g., after injury, during recovery);</li> <li>3. Interoperability between platforms</li> <li>4. Visualization</li> <li>5. Methods for addressing missing data, artifacts, etc.</li> </ol>   |
| <b>Criteria considerations:</b> <ul style="list-style-type: none"> <li>✓ Market potential</li> <li>✓ Technical feasibility</li> <li>✓ Readiness for standardization</li> <li>✓ Distinct identity (substantial technical merit when compared to other standards)</li> <li>✓ Adequate participation</li> <li>✓ Potential champion, sponsoring group</li> </ul> | <ol style="list-style-type: none"> <li><b>1. Market potential:</b> Fast-growth area, supported by Apple, Android, Fitbit, etc.; standards would provide platform for developing more advanced applications/services</li> <li><b>2. Technical feasibility:</b> Varies depending upon application; would require effort to investigate and prioritize specific opportunities</li> <li><b>3. Readiness:</b> Same as above</li> <li><b>4. Distinct identity:</b> Would have to be deconflicted with other standards, but could build off current IEEE life science standards efforts</li> <li><b>5. Participation:</b> Would require identifying diverse stakeholder groups with collective interest in establishing standards</li> <li><b>6. Champion:</b> IEEE / Pharma consortiums / AMIA or AMA</li> </ol> <p style="text-align: center;">Insert any additional information, slides</p> |

