IEEE P1752 Sleep Subgroup Meeting

Minutes of conference call held Jan 08, 2019, 8:30AM Pacific standard time

Conference call started at 8:33 AM Pacific Standard Time on join.me

Slide deck presented by subgroup Chair Charlotte Chen (available on iMeet)

Attendees:

Charlotte Chen (Philips)

Ray Krasinski (Philips)

Simona Carini (UCSF)

Josh Schilling (Vibrent Health)

Koichiro Matsumoto (Nihon Kohden Corp)

Banu Rekha (PSG College of Technology)

Antoni Grzanka (Medical University of Warsaw)

Paul Harris (University of Melbourne)

Agusti Solanas (Universitat Rovira i Virgili (Catalonia))

Anna T. (IEEE senior member)

Jacqueline Alikhaani (PCORI/AHA ambassador)

Agenda

1. Qualitative Schema Task Group Update (Banu)
2. Introduction to Open mHealth Survey Schema (Simona)
3. Quantitative Schema Task Group Update
4. Action Items
5. Other business
6. Adjourn

1. Qualitative Schema Task Group Update

* Dec 9 there was a meeting with Dr. White. Qualitative schema info updated based on this discussion (10 sets of questionnaires were identified as commonly used);
* Goal: Create a library of questionnaires and possibly build a generic schema using identified common attributes. Banu presents several attributes that appear in multiple questionnaires.

Banu has suggested categorizing selected questionnaires into a few attributes and these attributes could become a field in a schema or might use the attribute together with a score from a specific survey as a reported result.

* It may make more sense to follow the approach used by Open mHealth Survey schema: Have generic survey/questionnaire elements in a schema and create separate schemas, which reference the generic survey schemas, for specific types of questionnaires.
* Ray has also mentioned there are various possible approaches. For example, create a single schema to include all the possible fields needed, only instantiate the ones needed for a specific questionnaire.

2. Introduction to Open mHealth Survey Schema

* Existing Schema has been developed to capture qualitative information.
* Survey is a collection of questions and answers. Answers can be text, a value, a boolean or an object.
* Simona shows code related to the existing survey schema capabilities in mHealth today
* Simona shows an existing survey schema (Epworth sleepiness scale survey)
* (Banu) It is important to link the answers to the questions in the questionnaire to the property that is relevant
* (Simona) This can be done. The property must be defined in order to link it to the survey answer
* Would be good to look at the documentation related to survey schemas ([https://docs.google.com/document/d/1mPo6TycesJ3\_hS2LisV3FzAGSXuvH32LaEH8DW5P6ek/edit#](https://docs.google.com/document/d/1mPo6TycesJ3_hS2LisV3FzAGSXuvH32LaEH8DW5P6ek/edit))

3. Quantitative Schema Task Group Update

* Charlotte presents changes to the Ambient Light Schema
* It would be good to have sample data outlining a sample instance.
* Charlotte presents Deep Sleep Amount. Schema captures the percent of deep sleep out of total sleep.
* Charlotte presents Light Sleep Amount
* (Simona) Since the schema models a %, I propose to use “percentage” in the name
* Paul presents Body Movement Schema. He has mentioned he is working on OSA schema and need the consensus from the group about other data fields (e.g. number of hours mask was on, mask seal well or not) to ne included or not
* (Simona) Since this schema is specific to body movements related to sleep the name of this schema should reflect that. This is not a “generic” body movement schema but a sleep body movement schema. Overall suggestion: be as specific as possible in the schema name, but not too narrow

5. Other Business

* Draft schemas: providing comments is more efficient and effective when there is a schema we can all look at, as we've seen even this morning, so please put your proposal in a draft to share with the group
* Sample instance data: It is important to consider sample data when drafting a schema, not so much because of the JSON syntax, but because it helps figure out if the schema makes sense. This is particularly important when the schema can model one measurement or a descriptive statistic.

Action Items

* Draft quantitative schema by Jan 18
* Prepare subjective schemas and by Jan 14 agree on the approach and what we want to do

Next Call:

Entire 1752 call scheduled for Jan 15

Next Sleep Schema call will be Feb 5

Minutes taken by subgroup secretary Ray Krasinski

Conference Call adjourned 9:30AM, PST