

IEEE P1752.2 CardioRespiratory Measures Subgroup

Minutes of conference call held on May 4, 2023

Conference call started at 15:00 UTC (8:00 AM Pacific Time) on IEEE Webex

Attendance: 7 Attendees

Koichiro	Matsumoto	Nihon Kohden
Paul	Petronelli	PALM Associates
Vishnu	Ravi	Stanford Byers Center for Biodesign
Josh	Schilling	Vibrent Health
Paul	Steiner	Dartmouth College
Michael	Tsai	Kura Care

Agenda:

- Attendance and introductions
- Continuation of the discussion on structure specifics for the cardiorespiratory schema implementation
- Other business:
 - Collaborations
 - Next meeting time

Today's discussion again centered on the structure to be implemented for the cardiorespiratory schema, which was a continuation of the discussion during the previous meeting, during which any other proposals for schema structures were solicited. As before, this was considered with context provided by the schema design principles described at the [Open mHealth web site](#), with particular attention given to consideration of the principal of atomicity and to the principal of balancing parsimony and complexity (the 80-20 rule). The notion of schema construction informed by the desirability of further extensibility also was reviewed as being important to the relevance of semantic interoperability across the broadest range of usage paradigms, but that was described as being true particularly for data schema usage in the context of medical care.

During this meeting, agreement was reached on adopting a proposed schema structure that focused in particular on three distinct subschema groupings:

- 1) Cardiac pulse & rhythm
- 2) Blood pressure & hemodynamics
- 3) Respiratory, including ventilatory & gas exchange metrics

The possibility of 1-2 additional subschemas within the cardiorespiratory domain also was mentioned, but would require discussion with the Main Work Group were to be pursued. For each of the noted subschemas, a task group will focus on subschema construction and JSON code development, leveraging the existing P1752 Metadata and Utility schemas (while also noting any potential issues that would suggest the need for additional metadata and/or utility schema constructs). Going forward, these task groups as they form may choose to work on an independent so as to prepare for review during the monthly Cardiorespiratory Subgroup calls starting later this month.

The goal would be to try for completing an *initial* draft of a comprehensive cardiorespiratory schema that can be used as a springboard for further refinement this autumn, hopefully in conjunction with active engagement of identified key stakeholders (along with sharing of the value proposition document for this work).

Action Items:

- Forming task groups for each subschema (encourage recruitments, based on specific interest and expertise)
- Subschema construction and JSON code development progress, with monthly status updates going forward

Next meeting: May 25, 2023 at 15:00 UTC (8:00 AM Pacific Daylight Time)
Minutes taken by Paul Steiner (Dartmouth)