

IEEE P1752.2 CardioRespiratory Measures Subgroup

Minutes of conference call held on June 22, 2023

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

Attendance:

| | | |
|---------|------------|-------------------------------------|
| Kevin | Clark | Biomedicine domain champion, NSF |
| Paul | Petronelli | PALM Associates |
| Vishnu | Ravi | Stanford Byers Center for Biodesign |
| Josh | Schilling | Vibrent Health |
| Ida | Sim | UCSF, Open mHealth |
| Paul | Steiner | Dartmouth College |
| Michael | Tsai | Kura Care |

Agenda:

- Attendance and introductions
- Coding discussion
- Other business:
 - Subschema Task Groups
 - Next meeting time

Today's discussion focused on issues related to coding for the cardiorespiratory schema, with comments addressing challenges related to each subschema grouping.

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

Subschema construction informed by the desirability of further extensibility also was reviewed as contributing to the relevance of semantic interoperability in an important way across the broadest range of usage paradigms.

Challenges encountered were discussed, such as:

- The reliance on use of arrays/objects for efficient modeling of data, especially tier 0 "currency" data.
- Considerations for new utility schemas, some of which may be with narrow scope narrow relevant only within subschema groupings of the overall Open mHealth schema.
- Determination of choice data metrics to be modeled in dynamically subject areas, particularly as presently appears to be the case for blood pressure and hemodynamics.

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 later this autumn (before the end of the year), hopefully in conjunction with active engagement of identified key stakeholders.

Action Item:

Subschema construction and JSON code development progress, with plan for monthly status updates going forward.

Next meeting: July 27, 2023 at 15:00 UTC (8:00 AM Pacific Daylight Time)

Minutes taken by Paul Steiner (Dartmouth)

