P1752.2
Cardiorespiratory Subgroup Teleconference

Working Group Sponsored by IEEE Engineering in Medicine & Biology Standards Committee

August 25, 2022
15:00 UTC
P1752.2
Cardiorespiratory Subgroup

Agenda for August 25, 2022

Attendance
Review of prior minutes
Discussion: Use cases
  • Exercise physiology
    - Focus on heart rate and heart rate recovery
  • Other considerations about cardiorespiratory fitness (CRF)
    - VO2 max projections from submax data
    - Other (relevant, but more general)

Other business
  • Collaborations / stakeholder engagement
    HRX Conference (Sept 8-10, San Diego, USA)
    FHIR Connectathon (Sept 17-23, Baltimore, USA)
    AHA Conference (Nov 5-7, 2022, Chicago, USA)
  • Next meeting: September 29
P1752.2 Standard for Mobile Health Data

Cardiorespiratory Subgroup

Scope
The P1752.2 Cardiorespiratory (CR) Subgroup will review Open mHealth schemas related to CR measures and propose updates and additional schemas as needed. The scope includes but is not restricted to the following measures of CR health: blood pressure, heart rate, heart rate variability, RR interval, respiratory rate, and O2 saturation. The focus of this Subgroup’s work is on modeling data pertaining to CR function, not on current or future individual devices or apps that measure various aspects of CR health.

Duties
By reviewing the clinical aspects of CR health and existing relevant devices and apps, the Subgroup shall deliver a list of common attributes as well as a list of clinically important attributes in the CR domain as scoped above. The Subgroup shall propose modified and new schemas relating to CR health, including examples as informed by use cases and the list of common and clinically important attributes. Finally, the Subgroup shall deliver a review of mappings and/or relationships to non–Open mHealth CR schemas.

https://sagroups.ieee.org/1752/cardio-respiratory-subgroup/
Use case paradigms for developing P1752.2 Cardiorespiratory Schemas

Maintain alignment with existing “gold standard” clinical data landscape

Athleticism
Fitness Performance

Self Care
Health Maintenance Wellness

Health Care
Chronic Disease Monitoring
Post-Intervention Recovery Rehabilitation

DiMe Society Playbook:
- Clinical Research
- Clinical Care
- Public Health
Use Case

Exercise Recovery

Conner McCraw
Epidemiological Cardiology Research Center (EPICARE)
Wake Forest School of Medicine
Exercise physiology
  - Focus on heart rate & rate recovery
Other considerations about cardiorespiratory fitness (CRF)
  - VO2 max projections from submax data
  - Other (relevant, but more general)
    : Respiratory rate, ventilatory volume
    : Blood pressure
    : Change in rhythm status
    : O2 sat, pCO2
Athleticism

Fitness Performance

Self Care

Health Maintenance Wellness

Health Care

Chronic Disease Monitoring
Post-Intervention Recovery Rehabilitation

Use case paradigms for developing P1752.2 Cardiorespiratory Schemas

Maintain alignment with existing “gold standard” clinical data landscape

DiMe Society Playbook:
- Clinical Research
- Clinical Care
- Public Health
Physical Activity Alliance
‘Partners’

Listing of key stakeholders in the “Athleticism” paradigm

Professional organization & industry

Other P1752.2
Open mHealth stakeholder entities
Other business

- **Collaborations / stakeholder engagement**

  HRX Conference (Sept 8-10, San Diego, USA)
  FHIR Connectathon (Sept 17-23, Baltimore, USA)
  AHA Conference (Nov 5-7, 2022, Chicago, USA)

Other opportunities?

- **Next P1752.2 meeting : September 29**
Next meeting September 29 (15:00 UTC)