

# **P1752.2 Metabolic Subgroup Meeting**

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

10 January 2023

Teleconference

# Agenda

1. Attendance
2. Review of action items
3. Review of tasks
4. Other business

# Review of Tasks

# Body weight and Body composition

- Landscape analysis of weight and body composition measuring solutions [https://docs.google.com/document/d/1NTLUe7TaVnUkJoFGt1\\_Xy-tE-c\\_JFt3fHXA8-xUJXZE/edit#](https://docs.google.com/document/d/1NTLUe7TaVnUkJoFGt1_Xy-tE-c_JFt3fHXA8-xUJXZE/edit#)
- Measures include:
  - body weight
  - body height → BMI
  - bone mass
  - muscle mass
  - body fat [different types]
  - total body water
  - lean body mass

# Additionally

- From an earlier proposal:
  - waist circumference
  - body temperature
- Lifestyle self-reports - e.g., meal data
- basal metabolic rate
- *metabolic age*
- *fat-free body weight*

# Existing Open mHealth schemas

- body-weight
- body-height
- body-mass-index
- body-fat-percentage
- body-temperature

# Use cases: measures relating to energy

- Clinical: Thyroid, adrenal, acid-base, diabetes
- Scenario: data for med titration or logging
  - Diabetes: carb load, medication,
    - Data: BG, weight
  - Heart failure
    - Data: weight, body water
  - Infection monitoring
    - Data: body temp
  - Obesity
    - Data: weight, BMI, body fat,
  - Athletic performance
    - Weight, BMI, body fat, BG, electrolytes, body water, max O2 consumption (VO2max)
  - Frailty, sarcopenia
    - Muscle mass, bone mass,

# Summary of Action Items

Next Meeting

# Upcoming Meeting

- Metabolic subgroup:
  - Tuesday, February 14 at 8 am Pacific