P1752.2 Metabolic Subgroup Meeting

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

22 August 2023
Teleconference
Agenda

1. Attendance
2. Review of action items
3. Review of tasks
4. Other business
Review of Tasks
Body weight: Continuing the discussion (I)

Draft schemas

- **Body adiposity index** = (hip circumference in cm / (height in m)^1.5) - 18
- **Relative fat mass** = Men: 64 – (20 x height/waist circumference); Women: 76 – (20 x height/waist circumference)

- Waist circumference
- Visceral fat (fat surrounding organs)

Questions:
- 1) keep BMI also as standalone schema?
- 2) naming
Body weight: Continuing the discussion (II)

• Reviewed Metabolic landscape analysis document and proposed selection of measures shared by clinical and personal perspectives:

• In draft body-weight schema:
  • Bone
  • Fat
  • Skeletal muscle
  • Water
  • (as mass and %)

• Subgroup recommendations:
Blood Glucose: Food Intake

• Food intake (important for BG measures)
  • As currently the source is self-report, i.e., a food diary

• Subgroup recommendation
  • What to model?
USDA FoodData Central

- Foundation Foods Categories

[Food categories list]

- Baked Products
- Beef Products
- Beverages
- Cereal Grains and Pasta
- Dairy and Egg Products
- Fats and Oils
- Finfish and Shellfish Products
- Fruits and Fruit Juices
- Legumes and Legume Products
- Nut and Seed Products
- Pork Products
- Poultry Products
- Restaurant Foods
- Sausages and Luncheon Meats
- Soups, Sauces, and Gravies
- Spices and Herbs
- Sweets
- Vegetables and Vegetable Products
Food Diary Example
Consider for modeling:
Food Entry
Serving
Food

Or maybe omit Serving and focus on the consumption of food in terms of grams or kcals for each of the related entries.
Summary of Action Items
Next Meeting
Upcoming Meeting

• Metabolic subgroup:
  • Tuesday, September 12 at 8 am Pacific