

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 <u>landscape analysis</u> 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

SR/Foundation Food Category

√ All Categories

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

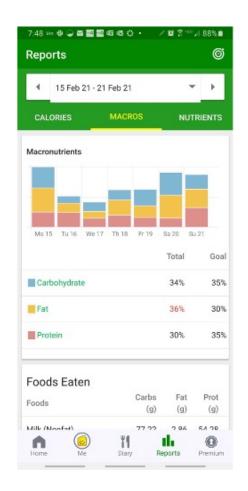
Sweets

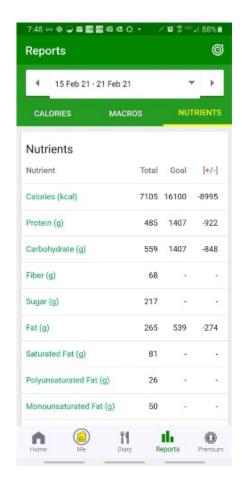
Vegetables and Vegetable Products



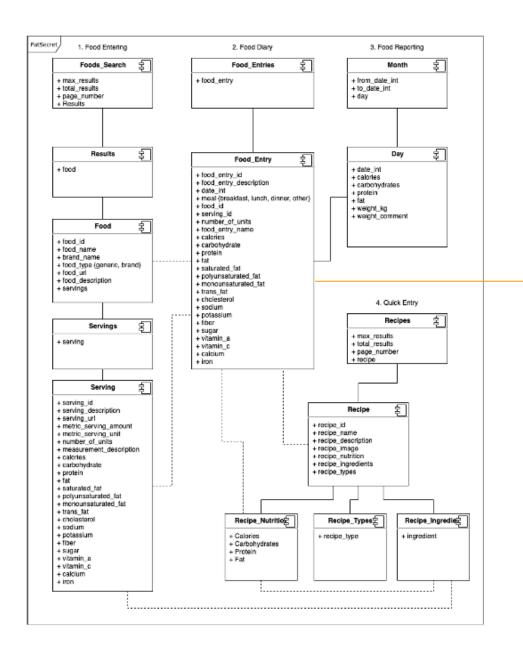
Food Diary Example

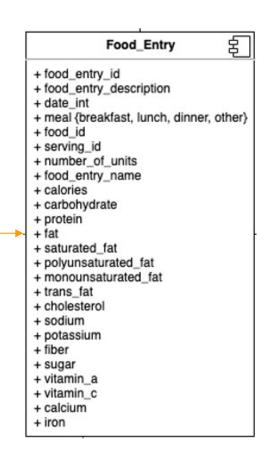






Data Model





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