

P1752.2 Metabolic Subgroup Meeting

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

25 July 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)

- [AMA position](#) (June 2023): “Due to significant limitations associated with the widespread use of BMI in clinical settings, the AMA suggests that it be used in conjunction with other valid measures of risk such as, but not limited to, measurements of visceral fat, body adiposity index, body composition, relative fat mass, waist circumference and genetic/metabolic factors.”
 - Visceral fat (fat surrounding organs)
 - [Body adiposity index](#) = (hip circumference in cm / (height in m)^{1.5}) - 18
 - Body composition
 - [Relative fat mass](#) = Men: 64 – (20 x height/waist circumference); Women: 76 – (20 x height/waist circumference)
 - Waist circumference

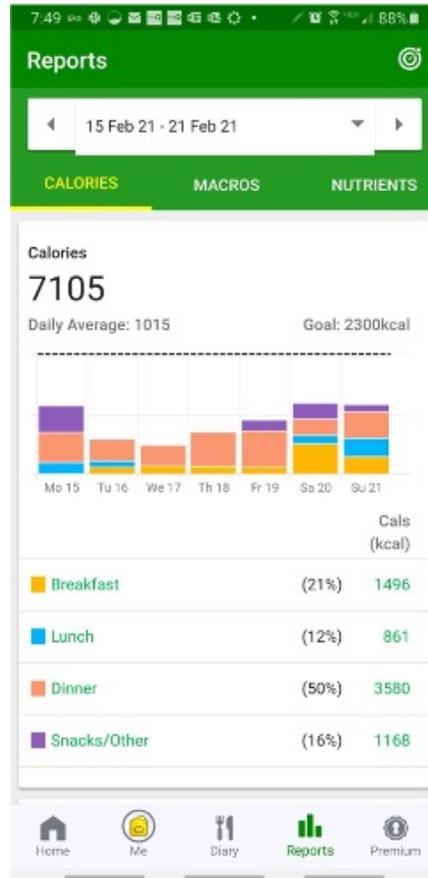
Body weight: Continuing the discussion (II)

- Review Metabolic [landscape analysis](#) document to select measures shared by clinical and personal perspectives:
 - Body components (see page 6)
 - Which ones to model?
 - Subgroup recommendation:

Blood Glucose: Food Intake

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

Food Diary Example



Reports

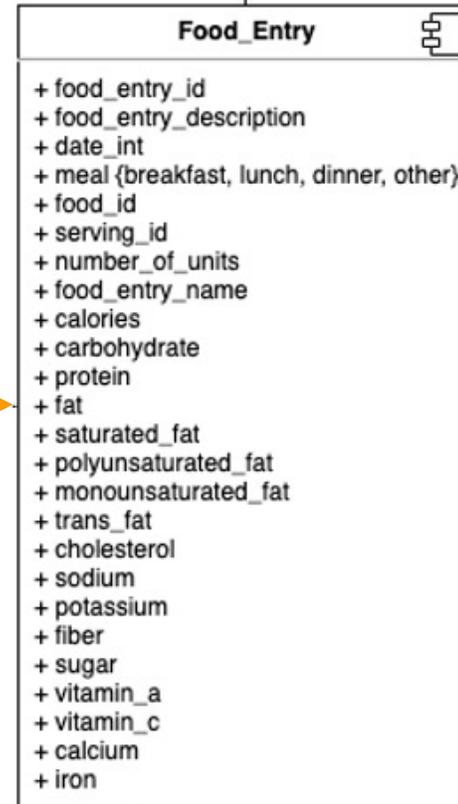
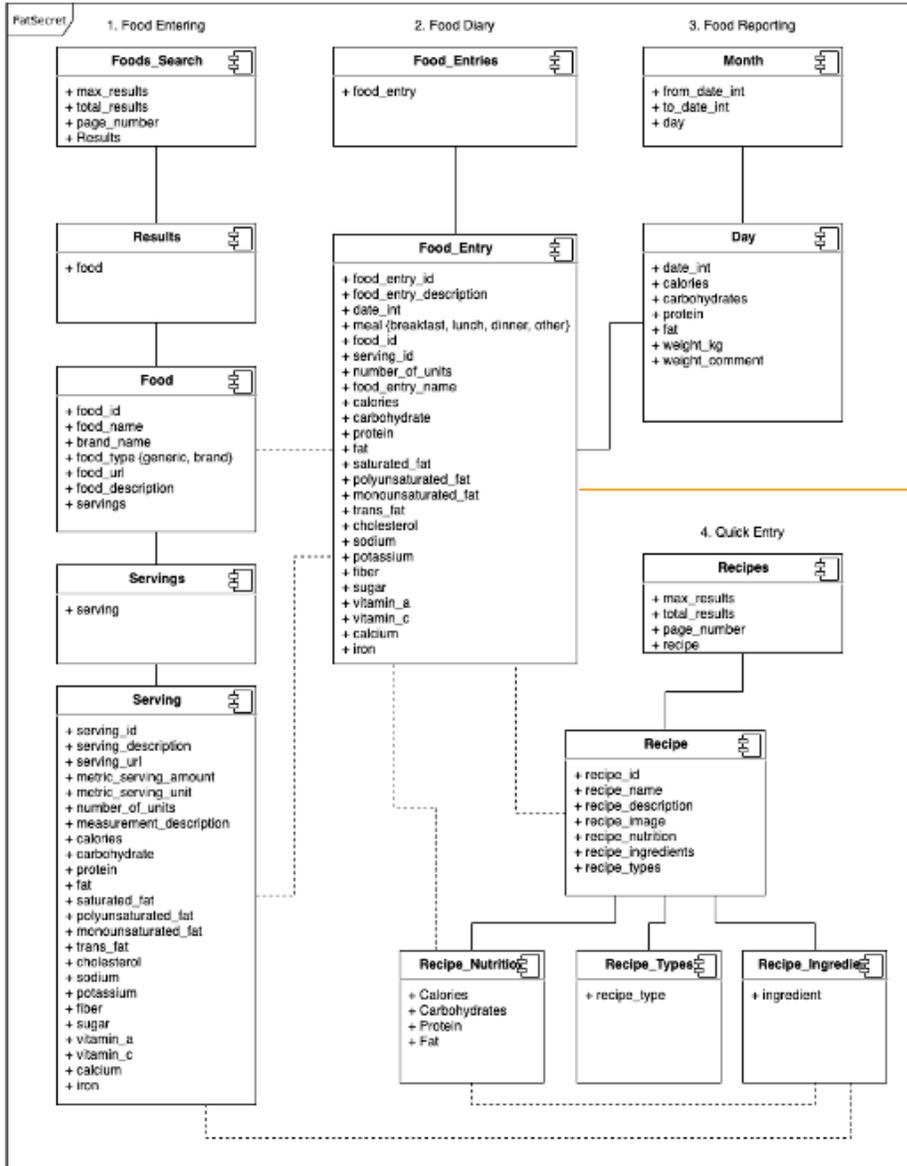
15 Feb 21 - 21 Feb 21

CALORIES MACROS NUTRIENTS

Nutrients

| Nutrient | Total | Goal | +/- |
|-------------------------|-------|-------|-------|
| Calories (kcal) | 7105 | 16100 | -8995 |
| Protein (g) | 485 | 1407 | -922 |
| Carbohydrate (g) | 559 | 1407 | -848 |
| Fiber (g) | 68 | - | - |
| Sugar (g) | 217 | - | - |
| Fat (g) | 265 | 539 | -274 |
| Saturated Fat (g) | 81 | - | - |
| Polyunsaturated Fat (g) | 26 | - | - |
| Monounsaturated Fat (g) | 50 | - | - |

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

Blood Glucose: Food Intake

- Subgroup recommendation
 - What to model?

Summary of Action Items

Next Meeting

Upcoming Meeting

- Metabolic subgroup:
 - Tuesday, August 22 at 8 am Pacific