**USDA annotation**

**Part A. Database structure**

**Part B. Pictures and text entries organization**

**Part C. Web portal to annotate images**

**Part D. Annotation work flow**

**Part E. Reports to be generated for each user or the group.**

**Part F. Appending data to the database. i. importing from other sources, ii. Manual input.**

**Part D. Annotation work flow**

**Option 1**. Search and enter data from the database

1. Enter a search term in the search field and Search database for a search term
2. Search result shows up on a pop up window or below the picture area (like in USA site0
3. Select item
4. Select portion size. This can be cups, grams, milliliter etc. USDA or FNDDS database might have some clues how to implement.
5. Confirm
6. If there are more items in the picture…
7. For the next item in the picture redo steps 1-5. It is possible that the user named only 1-2 items in the picture, but there are more items to be annotated.
8. After all items have been annotated – “Done with this image”
9. Next picture or entry from the same user loads
10. Go through steps 1-9

**Option 2** for text only

1. Text entries are to be completely guessed for the item and portion size
2. For example, if the user enters “Nuts”, one has to guess it is mixed nuts and ~50 grams or one serving size.

What is saved from the annotation?

Each picture file already has the user id, date and time. It also has the baseline information (day1, Day2, Day3… of baseline or intervention)

The table content is shown in the excel spreadsheet.

Option 3. Select data from last entries from the same user.

1. As soon as the image loads – the database does an automatic search for pictures containing the same “user defined annotation” as in the image to be analyzed. It displays 5 (or more) images that have already been analyzed. (so, all analyzed images are to be stored in a different database).
2. Each analyzed image will show up with the constituent items and portion size.
3. Select any of the similar item.
4. After select button is clicked, the portion size field will become editable to allow any change in portion size.
5. If the portion sizes to be changed , it is done and then press confirm.
6. The code, item description and portion size is transferred to the top box.
7. If additional items are to be added or searched from the database, type the food name in the search field and repeat steps 1-10 of **Option 1**.

Option 4. Medication

1. If the picture or text entry is a medication or supplement.
2. Just check the medication/supplement line and save. The user annotated medication or supplement name will be filled in the database. We will figure out how to populate this field.