

Data Collection Worksheet

Please Note: The Data Collection Worksheet (DCW) is a tool to aid integration of a PhenX protocol into a study. The PhenX DCW is not designed to be a data collection instrument. Investigators will need to decide the best way to collect data for the PhenX protocol in their study. Variables captured in the DCW, along with variable names and unique PhenX variable identifiers, are included in the PhenX Data Dictionary (DD) files.

*Read text if the respondent needs further clarification about the information requested.

These questions are about the different kinds of foods you ate or drank during the PAST MONTH, that is, the past 30 days. When answering, please include meals and snacks eaten at home, at work or school, in restaurants, and anyplace else.

1. During the past month, how often did you eat HOT OR COLD CEREALS? *Read if necessary: Include cereals eaten at any time of the day.

00 [] Never

- 01 [] 1-3 times last month
- **02** [] 1-2 times per week
- **03** [] 3-4 times per week
- 04 [] 5-6 times per week
- 05 [] 1 time per day
- **06** [] 2 times per day
- **07** [] 3 times per day
- **08** [] 4 times per day
- 09 [] 5 or more times per day
- 97 [] Refused
- **99** [] Don't know

2. During the past month . . . When you ate cereal, which kinds did you usually eat? *Enter one or two types. Separate with a comma.

1 [] Cooked cereals (such as oatmeal, cream of wheat, grits)

2 [] All bran cereals (such as All Bran[®], Fiber One[®], 100% Bran[®], or Bran Buds[®])

3 [] Cereals with some bran or fiber (such as Cheerios[®], Raisin Bran[®], Shredded Wheat[®], Total[®], Wheaties[®], 40% Bran Flakes[®], Granola, Grape Nuts[®], Müeslix[®], etc.)

4 [] Cereals with little bran or fiber (such as Corn Flakes[®], Honey Nut Cheerios[®], Froot Loops[®], Rice Krispies[®], Kix[®], Frosted Flakes[®], Special K[®], Cap'n Crunch[®], Blueberry Morning[®], Product 19[®], etc.)

- 5 [] Other
- 6 [] Refused
- 7 [] Don't know

3. During the past month . . . How often did you have MILK, either to drink or on cereal? Do NOT include small amounts of milk in coffee or tea. *Read if necessary: Do NOT include cream or soy milk. INCLUDE skim, no-fat, low-fat, whole milk, buttermilk, and lactose-free milk. Also INCLUDE chocolate or other flavored milks.

00 [] Never

01 [] 1-3 times last month

02 [] 1-2 times per week

- 03 [] 3-4 times per week
- 04 [] 5-6 times per week
- 05 [] 1 time per day
- 06 [] 2 times per day
- **07** [] 3 times per day
- 08 [] 4 times per day
- 09 [] 5 or more times per day
- 97 [] Refused
- **99** [] Don't know

4. During the past month, how often did you drink regular, carbonated SODA OR SOFT DRINKS that contain sugar? Do NOT include diet soda. *Read if necessary: Do

NOT include diet or sugar-free fruit drinks. Do NOT include juices or tea in cans. DO NOT include diet mineral water or diet flavored waters.

00 [] Never

01 [] 1-3 times last month

02 [] 1-2 times per week

03 [] 3-4 times per week

04 [] 5-6 times per week

05 [] 1 time per day

06 [] 2 times per day

07 [] 3 times per day

08 [] 4 times per day

09 [] 5 or more times per day

97 [] Refused

99 [] Don't know

5. During the past month, how often did you drink 100% FRUIT JUICE, such as orange, mango, apple, and grape juices? Do NOT count fruit drinks. *Read if necessary: INCLUDE only 100% pure juices. Do NOT include fruit drinks with added sugar, like Kool-Aid[®], Hi-C[®], lemonade, cranberry cocktail, Gatorade[®], Tampico[®], and Sunny Delight[®].

00 [] Never

01 [] 1-3 times last month

02 [] 1-2 times per week

03 [] 3-4 times per week

04 [] 5-6 times per week

05 [] 1 time per day

06 [] 2 times per day

07 [] 3 times per day

08 [] 4 times per day

09 [] 5 or more times per day

97 [] Refused

99 [] Don't know

NOW we are going to ask about FRUIT-FLAVORED drinks WITH ADDED SUGAR.

6. How often did you drink FRUIT-FLAVORED DRINKS with sugar (such as Kool-Aid®, Hi-C®, lemonade, or cranberry cocktail)? Do NOT include diet drinks. *Read if necessary: INCLUDE Gatorade® and other sports drinks with added sugar. INCLUDE Tampico®, Sunny Delight® and Twister®. Do NOT include 100% fruit juices or soda. Do NOT include yogurt drinks or carbonated water.

00 [] Never

01 [] 1-3 times last month

02 [] 1-2 times per week

03 [] 3-4 times per week

- 04 [] 5-6 times per week
- **05** [] 1 time per day
- 06 [] 2 times per day
- 07 [] 3 times per day
- **08** [] 4 times per day
- 09 [] 5 or more times per day
- 97 [] Refused
- **99** [] Don't know

7. During the past month . . . How often did you eat FRUIT? COUNT fresh, frozen, or canned fruit. Do NOT count juices. *Read if necessary: Include fruits such as apples, bananas, applesauce, melon, berries, fruit salad, mangos, papayas, oranges, and grapes.

00 [] Never

01 [] 1-3 times last month

- 02 [] 1-2 times per week
- **03** [] 3-4 times per week
- 04 [] 5-6 times per week
- **05** [] 1 time per day
- 06 [] 2 times per day
- **07** [] 3 times per day
- **08** [] 4 times per day
- 09 [] 5 or more times per day
- 97 [] Refused
- 99 [] Don't know

8. During the past month . . . How often did you eat a green leafy or lettuce SALAD, with or without other vegetables? *Read if necessary: INCLUDE spinach salads

- 00 [] Never
- 01 [] 1-3 times last month
- 02 [] 1-2 times per week
- **03** [] 3-4 times per week
- 04 [] 5-6 times per week
- **05** [] 1 time per day
- 06 [] 2 times per day
- **07** [] 3 times per day
- **08** [] 4 times per day
- 09 [] 5 or more times per day
- 97 [] Refused
- **99** [] Don't know

9. During the past month . . . How often did you eat FRENCH FRIES, home fries, or

hash brown potatoes?

00 [] Never

01 [] 1-3 times last month

02 [] 1-2 times per week

03 [] 3-4 times per week

04 [] 5-6 times per week

05 [] 1 time per day

06 [] 2 times per day

07 [] 3 times per day

08 [] 4 times per day

09 [] 5 or more times per day

97 [] Refused

99 [] Don't know

10. During the past month . . . How often did you eat other WHITE POTATOES? COUNT baked potatoes, boiled potatoes, mashed potatoes and potato salad. *Read if necessary: Do NOT include yams or sweet potatoes. INCLUDE red-skinned and Yukon Gold potatoes

00 [] Never

01 [] 1-3 times last month

02 [] 1-2 times per week

03 [] 3-4 times per week

04 [] 5-6 times per week

05 [] 1 time per day

06 [] 2 times per day

07 [] 3 times per day

08 [] 4 times per day

09 [] 5 or more times per day

97 [] Refused

99 [] Don't know

11. During the past month . . . How often did you eat COOKED DRIED BEANS, such as refried beans, baked beans, bean soup, and pork and beans? Do NOT include green beans.

00 [] Never

- 01 [] 1-3 times last month
- **02** [] 1-2 times per week
- **03** [] 3-4 times per week
- **04** [] 5-6 times per week
- **05** [] 1 time per day
- 06 [] 2 times per day
- 07 [] 3 times per day
- 08 [] 4 times per day
- 09 [] 5 or more times per day
- 97 [] Refused
- **99** [] Don't know

12. During the past month . . . Not counting what you just told me about (lettuce salads, white potatoes, cooked dried beans), and not counting rice, how often did you eat OTHER VEGETABLES? *Read if necessary: Examples of other vegetables include tomatoes, string beans, carrots, corn, sweet potatoes, cabbage, bean sprouts, collard greens, and broccoli.

00 [] Never

- 01 [] 1-3 times last month
- **02** [] 1-2 times per week
- **03** [] 3-4 times per week
- 04 [] 5-6 times per week

05 [] 1 time per day

- 06 [] 2 times per day
- 07 [] 3 times per day
- 08 [] 4 times per day
- 09 [] 5 or more times per day
- 97 [] Refused
- **99** [] Don't know

13. During the past month . . . How often did you have TOMATO SAUCES such as spaghetti sauce or pizza with tomato sauce?

00 [] Never

- 01 [] 1-3 times last month
- 02 [] 1-2 times per week
- **03** [] 3-4 times per week
- **04** [] 5-6 times per week
- **05** [] 1 time per day
- 06 [] 2 times per day
- **07** [] 3 times per day
- 08 [] 4 times per day
- 09 [] 5 or more times per day
- 97 [] Refused
- 99 [] Don't know
- 14. During the past month . . . How often did you have SALSA?
- 00 [] Never
- 01 [] 1-3 times last month
- 02 [] 1-2 times per week

03 [] 3-4 times per week

04 [] 5-6 times per week

05 [] 1 time per day

06 [] 2 times per day

07 [] 3 times per day

08 [] 4 times per day

09 [] 5 or more times per day

97 [] Refused

99 [] Don't know

15. During the past month . . . How often did you eat WHOLE GRAIN BREAD including toast, rolls, and in sandwiches? Whole grain breads include whole wheat, rye, oatmeal, and pumpernickel. Do NOT include white bread. *Read if necessary: INCLUDE cracked wheat, multi-grain, and bran breads.

00 [] Never

01 [] 1-3 times last month

02 [] 1-2 times per week

03 [] 3-4 times per week

04 [] 5-6 times per week

05 [] 1 time per day

06 [] 2 times per day

07 [] 3 times per day

08 [] 4 times per day

09 [] 5 or more times per day

97 [] Refused

99 [] Don't know

16. During the past month, how often did you eat DOUGHNUTS, sweet rolls, Danish, muffins, or Pop-Tarts[®]? Do NOT include sugar-free items. *Read if

necessary: INCLUDE low-fat kinds

00 [] Never

01 [] 1-3 times last month

02 [] 1-2 times per week

03 [] 3-4 times per week

04 [] 5-6 times per week

05 [] 1 time per day

06 [] 2 times per day

07 [] 3 times per day

08 [] 4 times per day

09 [] 5 or more times per day

97 [] Refused

99 [] Don't know

17. During the past month . . . How often did you eat COOKIES, CAKE, PIE, or BROWNIES? Do NOT include sugar-free kinds. *Read if necessary: INCLUDE low-fat kinds. Do NOT include ice cream and other frozen desserts or candy.

00 [] Never

01 [] 1-3 times last month

02 [] 1-2 times per week

03 [] 3-4 times per week

04 [] 5-6 times per week

05 [] 1 time per day

06 [] 2 times per day

07 [] 3 times per day

08 [] 4 times per day

09 [] 5 or more times per day

97 [] Refused

99 [] Don't know

18. During the past month . . . How often did you eat any kind of CHEESE? Include cheese as a snack, cheese on burgers, sandwiches, or pizza, and cheese mixed into such foods as lasagna, enchiladas, or casseroles.

00 [] Never

- 01 [] 1-3 times last month
- **02** [] 1-2 times per week
- **03** [] 3-4 times per week
- **04** [] 5-6 times per week
- 05 [] 1 time per day
- 06 [] 2 times per day
- 07 [] 3 times per day
- 08 [] 4 times per day
- **09** [] 5 or more times per day
- 97 [] Refused
- 99 [] Don't know

Scoring Procedures The following procedures are used to convert an individual's responses to an estimate of that individual's daily intake of calcium (mg):

1. The frequency reported categorically on the questionnaire is converted to the number of times consumed per day as shown below. In general, the midpoint of the frequency range was used.

Table 1. Conversion of Frequency Response to Times per Day							
Frequency Response Times per Day							
Never	0						

1-3 times per month	0.067
1-2 times per week	0.214
3-4 times per week	0.5
5-6 times per week	0.786
1 time per day	1
2 times per day	2
3 times per day	3
4 times per day	4
5 or more times per day	5

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2. The age and gender-specific portion sizes (below) for each food are multiplied by the frequency calculated in Step 1.

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Table 2a. Median Portion Size (P_k) in Grams per Mention by Age for Calcium: Men									
Food Group	Age Grou	Age Group							
	18-27	18-27 28-37 38-47 48-57 58-67 68-77 78-99							
	354.0000 00	219.6300 00		247.0000 00	234.0000 00		234.0000 00		
High-fiber Cereal (P2)	33.00000 0	33.00000 0	33.00000 0	33.00000 0	22.00000 0	22.00000 0	22.00000 0		

	n.					0	
Moderate- fiber cereal (P ₃)	84.00000 0	66.00000 0	58.00000 0	64.12500 0	50.00000 0	47.00000 0	39.00000 0
Low-fiber	64.00000	54.00000	54.00000	40.62500	40.00000	30.37500	29.00000
cereal (P4)	0	0	0	0	0	0	0
Milk (P5)	325.3333	268.4000	274.5000	244.0000	233.8333	206.0000	183.0000
	33	00	00	00	33	00	00
Regular soda	453.8666	372.0000	372.0000	372.0000	370.2000	368.4000	368.0000
(P ₆)	67	00	00	00	00	00	00
Fruit drinks	480.0000	376.5000	378.2650	372.0000	306.0000	248.0000	248.0000
(P ₇)	00	00	00	00	00	00	00
Fruit juice	372.0000	311.2500	249.0000	249.0000	248.0000	186.7500	186.7500
(P ₈)	00	00	00	00	00	00	00
Fruit (P ₉)	131.7500	128.0000	123.2000	127.5000	122.0000	118.0000	114.2500
	00	00	00	00	00	00	00
Salad (P ₁₀)	30.00000	47.83333	42.50000	41.25000	42.50000	41.25000	44.66666
	0	3	0	0	0	0	7
French fries	112.5000	114.0000	100.0000	100.0000	85.50000	85.50000	97.00000
(P ₁₁)	00	00	00	00	0	0	0
Other potatoes (P ₁₂)	210.0000 00	193.0000 00	193.0000 00	161.0000 00	150.0000 00	127.0000 00	113.2500 00
Dried beans	222.5000	188.0950	178.0000	189.7500	226.8000	199.3333	214.0000
(P ₁₃)	00	00	00	00	00	33	00

Other vegetables (P ₁₄)	61.25000 0	74.16666 7	75.62500 0	81.66666 7	76.00000 0	73.33250 0	70.00000 0	
Tomato sauce (P ₁₅)			125.0000 00	156.2500 00	122.5000 00	125.0000 00	125.0000 00	
Salsa (P ₁₆)	62.25000 0	62.25000 0	49.27500 0	43.87500 0	16.00000 0	31.13000 0	31.13000 0	
Whole grain bread (P ₁₇)	56.00000 0	54.00000 0	52.00000 0	52.00000 0	51.00000 0	48.25000 0	48.00000 0	
Doughnuts, sweet rolls, muffins (P ₁₈)		77.50000 0	72.80000 0	65.00000 0	63.00000 0	57.00000 0	57.00000 0	
Cookies, pie, cake, brownies (P ₁₉)	64.00000 0	66.00000 0	66.00000 0	73.73333 3	67.50000 0	64.00000 0	61.00000 0	
Cheese (P ₂₀)	-	-		-	-	28.35000 0	28.35000 0	
Table 2b. Me Women	dian Porti	on Size (P _k) in Gram	s per Ment	ion by Age	e for Calciu	ım:	
Food Group	Age Group							
	18-27	28-37	38-47	48-57	58-67	68-77	78-99	
			234.0000 00	234.0000 00	226.8000 00	234.0000 00	227.4750 00	

High-fiber	42.75000	42.75000	42.75000	42.75000	27.97000	27.97000	27.97000
cereal (P2)	0	0	0	0	0	0	0
Moderate- fiber cereal (P3)	60.00000 0	57.00000 0	53.00000 0	49.50000 0	42.00000 0	39.08333 3	40.00000 0
Low-fiber	46.50000	37.50000	36.25000	33.00000	27.00000	26.00000	25.00000
cereal (P4)	0	0	0	0	0	0	0
Milk (P5)	244.0000	244.0000	244.0000	214.2500	183.7500	183.0000	183.0000
	00	00	00	00	00	00	00
Regular soda	372.0000	372.0000	370.2000	368.4000	330.6666	366.0000	368.2000
(P ₆)	00	00	00	00	67	00	00
Fruit drinks	360.0000	341.0000	250.0000	250.0000	248.0000	240.0000	221.2000
(P ₇)	00	00	00	00	00	00	00
Fruit juice	280.1250	249.0000	248.8000	233.2500	189.7550	186.6000	186.7000
(P ₈)	00	00	00	00	00	00	00
Fruit (P ₉)	118.0000	118.0000	118.0000	118.0000	118.0000	112.4271	109.0000
	00	00	00	00	00	43	00
Salad (P ₁₀)	33.75000	32.08333	47.00000	55.00000	43.75000	34.33333	41.25000
	0	3	0	0	0	3	0
French fries	79.50000	70.00000	70.00000	70.00000	66.00000	70.00000	64.00000
(P ₁₁)	0	0	0	0	0	0	0
Other potatoes (P ₁₂)	122.0000 00	127.0000 00	119.0000 00	113.0000 00	105.0000 00	105.0000 00	105.0000 00

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Dried beans		126.5000	126.5000	141.7500	130.5500	172.0000	178.0000
(P ₁₃)		00	00	00	00	00	00
Other vegetables (P ₁₄)	56.00000 0	62.04333 3	64.41500 0	64.92000 0	65.00000 0	67.37500 0	71.33333 3
Tomato		113.4000	62.50000	125.0000	62.50000	62.50000	62.50000
sauce (P15)		00	0	00	0	0	0
Salsa (P ₁₆)	32.00000	31.13000	36.56500	27.84750	31.13000	16.00000	16.00000
	0	0	0	0	0	0	0
Whole grain	50.00000	48.00000	47.50000	45.00000	45.00000	42.40000	34.00000
bread (P ₁₇)	0	0	0	0	0	0	0
- ·	67.33333	58.00000	57.00000	58.50000	57.00000	59.00000	47.00000
	3	0	0	0	0	0	0
Cookies, pie, cake, brownies (P ₁₉)	56.70000 0	50.00000 0	48.80000 0	55.20000 0	57.00000 0	48.67500 0	52.66666 7
Cheese (P ₂₀)	28.25000	24.00000	24.00000	26.25000	28.35000	26.25000	28.35000
	0	0	0	0	0	0	0

3. Regression coefficients (see below) are applied according to the equation below.

Parameter	Men	Women
Intercept (b ₀)	4.482732	4.155762
Cooked cereals (b1)	0.000318	0.000484

High-fiber cereal (b2)	0.006716	0.006744
Moderate-fiber cereal (b ₃)	-0.000355	0.000074
Low-fiber cereal (b₄)	-0.002023	-0.001305
Milk (b5)	0.002204	0.002580
Regular soda (b ₆)	0.000089	0.000095
Fruit drinks (b7)	0.000105	0.000326
Fruit juice (b ₈)	0.000123	0.000195
Fruit (b ₉)	0.000170	0.000264
Salad (b ₁₀)	-0.000938	-0.000723
French fries (b ₁₁)	0.001159	0.000414
Other potatoes (b ₁₂)	0.000349	0.000489
Dried beans (b ₁₃)	0.000511	0.001035
Other vegetables (b14)	0.000400	0.000396
Tomato sauce (b15)	0.000948	0.000287
Salsa (b ₁₆)	0.002179	0.002679

Whole grain bread (b17)	0.000406	0.000680
Doughnuts, sweet rolls, muffins (b ₁₈)	0.001198	0.001873
Cookies, pie, cake, brownies (b ₁₉)	0.001771	0.002451
Cheese (b ₂₀)	0.014186	0.015442

To estimate calcium (mg), the model is: E (Dietary Factor)^{.25} = $b_0 + b_1 N_{FG1}P_1 + b_2 N_{FG2}P_2 + \ldots + b_{20}N_{FG20}P_{20}$

For men: Quarter root of calcium (mgs) = 4.482732 + 0.000318 (Daily Frequency * Gender/Age Specific Portion Size per Mention for Cooked cereals) + 0.006716 (Daily Frequency * Gender/Age Specific Portion Size per Mention for High-fiber Cereal) + ... + 0.014186 (Daily Frequency * Gender/Age Specific Portion Size per Mention for Cheese)

For women: Quarter root of calcium (mgs) = 4.155762 + 0.000484 (Daily Frequency * Gender/Age Specific Portion Size per Mention for Cooked cereals) + 0.006744 (Daily Frequency * Gender/Age Specific Portion Size per Mention for High-fiber Cereal) + ... + 0.015442 (Daily Frequency * Gender/Age Specific Portion Size per Mention for Cheese)

All Bran[®], Bran Buds[®], Raisin Bran[®], Pop-Tarts[®], Müeslix[®], Corn Flakes[®], Froot Loops[®], Rice Krispies[®], Frosted Flakes[®], Special K[®], and Product 19[®] are registered trademarks of Kellogg NA Co. Fiber One[®], Cheerios[®], Total[®], Wheaties[®], Honey Nut Cheerios[®], and Kix[®] are registered trademarks of General Mills Inc. 100% Bran[®], Shredded Wheat[®], 40% Bran[®], Grape Nuts[®], and Blueberry Morning[®] are registered trademarks of Post Foods, LLC. Cap'n Crunch[®] is a registered trademark of Quaker Oats Company; Kool-Aid[®] is a registered trademark of Kraft Foods Inc.; Hi-C[®] is a registered trademark of The Coca-Cola Company; Gatorade[®] is a registered trademark of PepsiCo Inc.; Tampico[®] is a registered trademark of Tampico Beverages, Inc.; Sunny Delight[®] is a registered trademark of Sunny Delight Beverages Co.; Twister[®] is a registered trademark of Tropicana Products, Inc.

Protocol source: https://www.phenxtoolkit.org/protocols/view/50202