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| **Calcium Intake by Adults (Daily)** | |
| **Protocol Id** | 050202 |
| **Version #** | 1 |
| **Description of Protocol** | These questions from the Five-Factor Screener were in-person interviewer-administered and may be useful to assess an individual’s approximate intakes of several foods. These particular questions address calcium intake. No portion size questions are asked. This screener does not attempt to assess total diet. |
| **Specific Instructions** | None |
| **Protocol Text** | \*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®, Muselix®, 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 |   2. The age and gender-specific portion sizes (below) for each food are multiplied by the frequency calculated in Step 1.   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Table 2a.** Median Portion Size (Pk) in Grams per Mention by Age for Calcium: Men | | | | | | | | | **Food Group** | **Age Group** | | | | | | | | **18-27** | **28-37** | **38-47** | **48-57** | **58-67** | **68-77** | **78-99** | | Cooked Cereals (P1) | 354.000000 | 219.630000 | 247.000000 | 247.000000 | 234.000000 | 239.000000 | 234.000000 | | High-fiber Cereal (P2) | 33.000000 | 33.000000 | 33.000000 | 33.000000 | 22.000000 | 22.000000 | 22.000000 | | Moderate-fiber cereal (P3) | 84.000000 | 66.000000 | 58.000000 | 64.125000 | 50.000000 | 47.000000 | 39.000000 | | Low-fiber cereal (P4) | 64.000000 | 54.000000 | 54.000000 | 40.625000 | 40.000000 | 30.375000 | 29.000000 | | Milk (P5) | 325.333333 | 268.400000 | 274.500000 | 244.000000 | 233.833333 | 206.000000 | 183.000000 | | Regular Soda (P6) | 453.866667 | 372.000000 | 372.000000 | 372.000000 | 370.200000 | 368.400000 | 368.000000 | | Fruit Drinks (P7) | 480.000000 | 376.500000 | 378.265000 | 372.000000 | 306.000000 | 248.000000 | 248.000000 | | Fruit Juice (P8) | 372.000000 | 311.250000 | 249.000000 | 249.000000 | 248.000000 | 186.750000 | 186.750000 | | Fruit (P9) | 131.750000 | 128.000000 | 123.200000 | 127.500000 | 122.000000 | 118.000000 | 114.250000 | | Salad (P10) | 30.000000 | 47.833333 | 42.500000 | 41.250000 | 42.500000 | 41.250000 | 44.666667 | | French fries (P11) | 112.500000 | 114.000000 | 100.000000 | 100.000000 | 85.500000 | 85.500000 | 97.000000 | | Other potatoes (P12) | 210.000000 | 193.000000 | 193.000000 | 161.000000 | 150.000000 | 127.000000 | 113.250000 | | Dried beans (P13) | 222.500000 | 188.095000 | 178.000000 | 189.750000 | 226.800000 | 199.333333 | 214.000000 | | Other vegetables (P14) | 61.250000 | 74.166667 | 75.625000 | 81.666667 | 76.000000 | 73.332500 | 70.000000 | | Tomato sauce (P15) | 63.000000 | 125.000000 | 125.000000 | 156.250000 | 122.500000 | 125.000000 | 125.000000 | | Salsa (P16) | 62.250000 | 62.250000 | 49.275000 | 43.875000 | 16.000000 | 31.130000 | 31.130000 | | Whole Grain Bread (P17) | 56.000000 | 54.000000 | 52.000000 | 52.000000 | 51.000000 | 48.250000 | 48.000000 | | Doughnuts, sweet rolls, muffins (P18) | 71.000000 | 77.500000 | 72.800000 | 65.000000 | 63.000000 | 57.000000 | 57.000000 | | Cookies, pie, cake, brownies (P19) | 64.000000 | 66.000000 | 66.000000 | 73.733333 | 67.500000 | 64.000000 | 61.000000 | | Cheese (P20) | 35.440000 | 28.350000 | 30.470000 | 29.390000 | 28.350000 | 28.350000 | 28.350000 |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Table 2b.** Median Portion Size (Pk) in Grams per Mention by Age for Calcium: Women | | | | | | | | | **Food Group** | **Age Group** | | | | | | | | **18-27** | **28-37** | **38-47** | **48-57** | **58-67** | **68-77** | **78-99** | | Cooked Cereals (P1) | 234.000000 | 234.000000 | 234.000000 | 234.000000 | 226.800000 | 234.000000 | 227.475000 | | High-fiber Cereal (P2) | 42.750000 | 42.750000 | 42.750000 | 42.750000 | 27.970000 | 27.970000 | 27.970000 | | Moderate-fiber cereal (P3) | 60.000000 | 57.000000 | 53.000000 | 49.500000 | 42.000000 | 39.083333 | 40.000000 | | Low-fiber cereal (P4) | 46.500000 | 37.500000 | 36.250000 | 33.000000 | 27.000000 | 26.000000 | 25.000000 | | Milk (P5) | 244.000000 | 244.000000 | 244.000000 | 214.250000 | 183.750000 | 183.000000 | 183.000000 | | Regular Soda (P6) | 372.000000 | 372.000000 | 370.200000 | 368.400000 | 330.666667 | 366.000000 | 368.200000 | | Fruit Drinks (P7) | 360.000000 | 341.000000 | 250.000000 | 250.000000 | 248.000000 | 240.000000 | 221.200000 | | Fruit Juice (P8) | 280.125000 | 249.000000 | 248.800000 | 233.250000 | 189.755000 | 186.600000 | 186.700000 | | Fruit (P9) | 118.000000 | 118.000000 | 118.000000 | 118.000000 | 118.000000 | 112.427143 | 109.000000 | | Salad (P10) | 33.750000 | 32.083333 | 47.000000 | 55.000000 | 43.750000 | 34.333333 | 41.250000 | | French fries (P11) | 79.500000 | 70.000000 | 70.000000 | 70.000000 | 66.000000 | 70.000000 | 64.000000 | | Other potatoes (P12) | 122.000000 | 127.000000 | 119.000000 | 113.000000 | 105.000000 | 105.000000 | 105.000000 | | Dried beans (P13) | 132.750000 | 126.500000 | 126.500000 | 141.750000 | 130.550000 | 172.000000 | 178.000000 | | Other vegetables (P14) | 56.000000 | 62.043333 | 64.415000 | 64.920000 | 65.000000 | 67.375000 | 71.333333 | | Tomato sauce (P15) | 125.000000 | 113.400000 | 62.500000 | 125.000000 | 62.500000 | 62.500000 | 62.500000 | | Salsa (P16) | 32.000000 | 31.130000 | 36.565000 | 27.847500 | 31.130000 | 16.000000 | 16.000000 | | Whole Grain Bread (P17) | 50.000000 | 48.000000 | 47.500000 | 45.000000 | 45.000000 | 42.400000 | 34.000000 | | Doughnuts, sweet rolls, muffins (P18) | 67.333333 | 58.000000 | 57.000000 | 58.500000 | 57.000000 | 59.000000 | 47.000000 | | Cookies, pie, cake, brownies (P19) | 56.700000 | 50.000000 | 48.800000 | 55.200000 | 57.000000 | 48.675000 | 52.666667 | | Cheese (P20) | 28.250000 | 24.000000 | 24.000000 | 26.250000 | 28.350000 | 26.250000 | 28.350000 |   3. Regression coefficients (see below) are applied according to the equation below.   |  |  |  | | --- | --- | --- | | **Parameter** | Men | Women | | Intercept (b0) | 4.482732 | 4.155762 | | Cooked Cereals (b1) | 0.000318 | 0.000484 | | High-fiber Cereal (b2) | 0.006716 | 0.006744 | | Moderate-fiber cereal (b3) | -0.000355 | 0.000074 | | Low-fiber cereal (b4) | -0.002023 | -0.001305 | | Milk (b5) | 0.002204 | 0.002580 | | Regular Soda (b6) | 0.000089 | 0.000095 | | Fruit Drinks (b7) | 0.000105 | 0.000326 | | Fruit juice (b8) | 0.000123 | 0.000195 | | Fruit (b9) | 0.000170 | 0.000264 | | Salad (b10) | -0.000938 | -0.000723 | | French fries (b11) | 0.001159 | 0.000414 | | Other potatoes (b12) | 0.000349 | 0.000489 | | Dried beans (b13) | 0.000511 | 0.001035 | | Other vegetables (b14) | 0.000400 | 0.000396 | | Tomato sauce (b15) | 0.000948 | 0.000287 | | Salsa (b16) | 0.002179 | 0.002679 | | Whole grain bread (b17) | 0.000406 | 0.000680 | | Doughnuts, sweet rolls, muffins (b18) | 0.001198 | 0.001873 | | Cookies, pie, cake, brownies (b19) | 0.001771 | 0.002451 | | Cheese (b20) | 0.014186 | 0.015442 |   To estimate calcium (mg), the model is: E (Dietary Factor).25 = b0 + b1NFG1P1 + b2NFG2P2 + ... + b20NFG20P20  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®, Muselix ®, Corn Flakes®, Froot Loops®, Rice Krispies®, Frosted Flakes®, Special K®, and Product 19® are registered trademarks, Kellogg NA Co. Fiber One®, Cheerios® , Total®, Wheaties®, Honey Nut Cheerios®, and Kix®, are registered trademarks, General Mills Inc. 100% Bran®, Shredded Wheat®, 40% Bran®, Grape Nuts®, and Blueberry Morning® are registered trademarks, Post Foods, LLC. Cap’n Crunch® is a registered trademark, Quaker Oats Company; Kool-Aid® is a registered trademark, Kraft Foods Inc.; Hi-C® is a registered trademark, The Coca-Cola Company; Gatorade® is a registered trademark, PepsiCo Inc.; Tampico® is a registered trademark, Tampico Beverages, Inc.; Sunny Delight® is a registered trademark, Sunny Delight Beverages Co.; Twister® is a registered trademark, Tropicana Products, Inc. |
| **Selection Rationale** | This instrument was determined to be low burden, collects dietary intake information on a nutrient that is known to interact with gene variants in chronic disease, and has been validated against the 24-hour recall dietary methodology. |
| **Source** | Centers for Disease Control and Prevention, National Center for Health Statistics. National Health Interview Survey (NHIS) 2005. Diet and Nutrition Questionnaire, questions NAC.010\_00.00 (question 1), NAC.015\_00.00 (question 2), NAC.020\_00.00 (question 3), NAC.030\_00.00 (question 4), NAC.040\_00.00 (question 5), NAC.060\_00.00 (question 6), NAC.070\_00.00 (question 7), NAC.090\_00.00 (question 8), NAC.100\_00.00 (question 9), NAC.110\_00.00 (question 10), NAC.120\_00.00 (question 11), NAC.130\_00.00 (question 12), NAC.131\_00.00 (question 13), NAC.132\_00.00 (question 14), NAC.135\_00.00 (question 15), NAC.136\_00.00 (question 16), NAC.137\_00.00 (question 17), and NAC.138\_00.00 (question 18).  National Cancer Institute, Five-Factor Screener 2005. National Health Interview Survey (NHIS) Diet and Nutrition. NAC.010–NAC.138. |
| **Language** | English, Spanish |
| **Participant** | An individual aged 18 years or older |
| **Personnel and Training Required** | The interviewer must be trained to conduct personal interviews with individuals from the general population. The interviewer must be trained and found to be competent (i.e., tested by an expert) at the completion of personal interviews. The interviewer should be trained to prompt respondents further if a "don’t know" response is provided.  There are multiple modes to administer this question (e.g., paper-and-pencil and computer-assisted interviews). |
| **Equipment Needs** | While the source instrument was developed to be administered by computer, the PhenX Working Group acknowledges these questions can be administered in a noncomputerized format (i.e., paper-and-pencil instrument). Computer software is necessary to develop computer-assisted instruments. The interviewer will require a laptop computer/handheld computer to administer a computer-assisted questionnaire. |
| **Standards** | |  |  |  |  | | --- | --- | --- | --- | | **Standard** | **Name** | **ID** | **Source** | | Common Data Elements (CDE) | Adult Daily Calcium Intake Value in Milligram | 2944681 | [CDE Browser](https://cdebrowser.nci.nih.gov/CDEBrowser/search?elementDetails=9&FirstTimer=0&PageId=ElementDetailsGroup&publicId=2944681&version=1.0) | | Logical Observation Identifiers Names and Codes (LOINC) | PhenX - calcium intake - adult protocol | 62289-4 | [LOINC](http://s.details.loinc.org/LOINC/62289-4.html?sections=Web) | |
| **General References** | Five-Factor Screener: [Validation Results](http://www.phenxtoolkit.org/index.php?pageLink=browse.si.additionalinfo&id=50000) |
| **Protocol Type** | Interviewer-administered questionnaire |
| **Derived Variables** | None |
| **Requirements** | |  |  | | --- | --- | | **Requirement Category** | **Required** | | Licensing fee or cost to obtain and/or use measure  There is a cost or licensing fee that the investigator must pay to obtain, use or analyze this measurement protocol. The cost category would only indicate that the protocol / instrument is not freely available to the general public. | No | | Major equipment  This measure requires a specialized measurement device that may not be readily available in every setting where genome wide association studies are being conducted. Examples of specialized equipment are DEXA, Echocardiography, and Spirometry | No | | Specialized requirements for biospecimen collection  This protocol requires that blood, urine, etc. be collected from the study participants. | No | | Specialized training  This measure requires staff training in the protocol methodology and/or in the conduct of the data analysis. | **Yes** | |