Boston Puerto Rican Health Study Wave 1 (Baseline) Codebook

DEMOGRAPHICS & SOCIOECONOMIC STATUS	
HOUSEHOLD INCOME (HI)	3
DERIVED HOUSEHOLD INCOME VARIABLES	4
USDA FOOD-SECURITY/HUNGER SCALE (FSS)	6
DERIVED FOOD SECURITY VARIABLES	8
HOUSEHOLD COMPOSITION (HC)	9
DERIVED DEMOGRAPHIC AND EDUCATION VARIABLES	11
ACCULTURATION	
WORK HISTORY AND INCOME (WH)	
ACCULTURATION (ACC)	16
MIGRATION HISTORY (MH)	
PSYCHOLOGICAL ACCULTURATION SCALE (PAS)	19
DERIVED ACCULTURATION VARIABLES	20
PSYCOSOCIAL STATUS	
DEPRESSION SCALE (DS)	
DERIVED DEPRESSION VARIABLES	
PERCEIVED DISCRIMINATION QUESTIONNAIRE (PDQ)	23
PERCEIVED STRESS SCALE (PSS)	23
DERIVED STRESS VARIABLES	24
NORBECK SOCIAL SUPPORT QUESTIONNAIRE (NSSQ)	25
DERIVED NORBECK SOCIAL SUPPORT VARIABLES	
SOCIAL AND COMMUNITY SUPPORT & ASSISTANCE (SOC)	33
DERIVED SOCIAL AND COMMUNITY SUPPORT VARIABLES	35
LIFE EVENTS QUESTIONNAIRE (LEQ)	36
DERIVED LIFE EVENTS VARIABLES	40
PHYSICAL FUNCTION	41
PHYSICAL PERFORMANCE TESTS (PPT)	41
DERIVED PHYSICAL PERFORMANCE TEST VARIABLES	45
FUNCTIONAL STATUS ACTIVITIES OF DAILY LIVING (ADL)	46
INSTRUMENTAL ACTIVITIES OF DAILY LIVING (IADL)	47
DERIVED FUNCTIONAL STATUS VARIABLES	47
COGNITION	50
NEUROPSYCHOLOGICAL EXAMINATION SCORING SHEET	50
DERIVED COGNITION VARIABLES	52
HEALTH BEHAVIORS	54
TOBACCO USE (TOB)	54
DERIVED TOBACCO USE VARIABLES	55

Codebook Updated 9.24.24

Variables in grey font are not in the released dataset but are available upon request.

ALCOHOL USE (ALC)	56
DERIVED ALCOHOL USE VARIABLES	
PHYSICAL ACTIVITY (ACT)	59
DERIVED PHYSICAL ACTIVITY VARIABLES	60
HEALTH AND HEALTH CARE (HHC)	62
HEALTH INSURANCE (INS)	63
DERIVED INSURANCE VARIABLE	63
MEDICAL DIAGNOSES	64
BLOOD PRESSURE	-
DERIVED BLOOD PRESSURE VARIABLES	
ANTHROPOMETRY (ANT)	66
DERIVED ANTHROPOMETRY VARIABLES	66
MEDICAL DIAGNOSES (MED)	
MENOPAUSE	
DERIVED CLINICAL MEASUREMENTS AND CONDITIONS VARIABLES	
DERIVED METABOLIC SYNDROME VARIABLES	70
FRAMINGHAM RISK SCORES	72
ALLOSTATIC LOAD	73
LAB VARIABLES	77
BLOOD	77
URINE – 12 HOUR COLLECTION	80
SALIVA	80
DERIVED LAB VARIABLES	81
MEDICATIONS	85
DERIVED MEDICATION VARIABLES	86
INTERVIEWER'S OBSERVATIONS AND COMMENTS (OBS)	
APPENDICES	
REFERENCES	
ALLOSTATIC LOAD CUTOFFS TABLE	
POVERTY GUIDELINES	
NEUROPSYCHOLOGICAL EXAMS	

DEMOGRAPHICS & SOCIOECONOMIC STATUS

Note: Other Work History and Income Variables are included in the Acculturation section.

I would like for you to tell me about your household income: who contributes to the necessary expenses, and in what way, and how often does each contributor help out? You have no obligation to share this information with me, but remember that all of the information you share with me will be kept completely confidential.

CO-INFORMANT: YES NO PROXFSS

HOUSEHOLD INCOME (HI)

					Frequency
Relationship to Subject	Source of Income			Amount	CODES: 1. Weekly
(Use Codes from previous page)	CIRCLE ALL THAT APPLY			CODES: -997 Refused -998 don't know	2. Bi-weekly 3. Monthly 4. Yearly
		NO	YES		
	0. Employment Hi1Si0	0	1	<u>\$Hi1Amt0.00</u>	<u>Hi1Freq0</u>
1. Subject/Self	1. TANE Hi1Si1	0	1	<u>\$ Hi1Amt1.00</u>	Hi1Freq1
Hi_self	2. SSI Hi1Si2	0	1	<u>\$ Hi1Amt2.00</u>	Hi1Freq2
	3. SSDI Hi1Si3	0	1	<u>\$ Hi1Amt3.00</u>	Hi1Freq3
	4. Child Support Hi1Si4	0	1	<u>\$ Hi1Amt4.00</u>	Hi1Freq4
	5. Pension Hi1Si5	0	1	<u>\$ Hi1Amt5.00</u>	<u>Hi1Freq5</u>
	6. Retirement -Hi1Si6	0	1	<u>\$ Hi1Amt600</u>	<u>Hi1Freq6</u>
Hi1Si7	Food Stamps (ATDP)	0	1	<u>\$ Hi1Amt7.00</u>	<u>Hi1Freq7</u>
Hi1Si8	8. Other <u>Hi1Si8t</u>	0	1	<u>\$ Hi1Amt8.00</u>	<u>Hi1Freq8</u>
Hi1Si9	9. Other <u>Hi1Si9t</u>	0	1	<u>\$ Hi1Amt9.00</u>	<u>Hi1Freq9</u>
2Hi_2	0. Employment Hi2Si0	0	1	\$Hi2Amt0 .00	Hi2Freq0
	1. TANE 1 i2Si1	0	1	\$ Hi2Amt1.00	Hi2Freq1
	2. SSI 21Si2	0	1	\$ Hi2Amt2.00	Hi2Frea2
	3. SSDI Hi2Si3	0	1	\$ Hi2Amt3.00	Hi2Frea3
	4. Child Support Hi2Si4	0	1	\$ Hi2Amt4.00	Hi2Frea4
	5. Pension Hi2Si5	0	1	\$ Hi2Amt5.00	Hi2Freq5
	6. Retirement Hi2Si6	0	1	\$ Hi2Amt600	Hi2Freq6
Hi2Si7	7. Food Stamps (ATDP)	0	1	\$ Hi2Amt7.00	Hi2Freq7
Hi2Si8	8. Other <u>Hi2Si8t</u>	0	1	\$ Hi2Amt8.00	Hi2Freq8
Hi2Si9	9. Other Hi2Si9t	0	1	\$ Hi2Amt9.00	Hi2Freq9
	0. Employment Hi3Si0	0	1	\$Hi3Amt0 .00	Hi3Frea0
	1. TANE 1 i3Si1	0	1	\$ Hi3Amt1.00	Hi3Freq1
	2. SSI Hi3Si2	0	1	\$ Hi3Amt2.00	Hi3Freq2
3 Hi3	3. SSDI Hi3Si3	0	1	\$ Hi3Amt3.00	Hi3Freq3
	4. Child Support Hi3Si4	0	1	\$ Hi3Amt4.00	Hi3Frea4
	5. Pension Hi3Si5	0	1	\$ Hi3Amt5.00	Hi3Freq5
	6. Retirement Hi3Si6	0	1	\$ Hi3Amt600	Hi3Freq6
Hi3Si7	7. Food Stamps (ATDP)	0	1	\$ Hi3Amt7.00	Hi3Frea7
Hi3Si8	8. Other Hi3Si8t	0	1	\$ Hi3Amt8.00	Hi3Frea8
Hi3Si9	9. Other Hi3Si9t	0	1	\$ Hi3Amt9.00	Hi3Freq9
	0. Employment Hi4Si0	0	1	\$ Hi4Amt0 .00	Hi4Frea0
	1. TANF Hi4Si1	0	1	\$ Hi4Amt1 .00	Hi4Freq1
	2. SSI Hi4Si2	0	1	\$ Hi4Amt2 .00	Hi4Freq2
4. Hi 4	3. SSDI Hi4Si3	0	1	\$ Hi4Amt3 .00	Hi4Freq3
· · · · · · · · · · · · · · · · · · ·	4. Child Support Hi4Si4	0	1	\$ Hi4Amt4 .00	Hi4Freq4
	5. Pension Hi4Si5	0	1	\$ Hi4Amt5 .00	Hi4Frea5
		9		y 111 17 11169.00	

Boston Puerto Rican Health Study Wave 1 (Baseline) Codebook

	6.	Retirement Hi4Si6	0	1	\$ Hi4Amt600	Hi4Freq6
Hi4Si7	7.	Food Stamps (ATDP)	0	1	\$ Hi4Amt7.00	Hi4Freq7
Hi4Si8	8.	Other <u>Hi4Si8t</u>	0	1	\$ Hi4Amt8.00	Hi4Freq8
Hi4Si9	9.	Other <u>Hi4Si9t</u>	0	1	\$ Hi4Amt9 .00	Hi4Freq9

Total Household Income

DERIVED HOUSEHOLD INCOME VARIABLES

HI_EMPLOY: household income due to employment =sum(HI1YEAR0, HI2YEAR0, HI3YEAR0, HI4YEAR0);

- HI_TANF: household income due to TANf =sum(HI1YEAR1, HI2YEAR1, HI3YEAR1, HI4YEAR1);
- HI_SSI: household income due to SSI =sum(HI1YEAR2, HI2YEAR2, HI3YEAR2, HI4YEAR2);

HI_SSDI: household income due to SSDI =sum(HI1YEAR3, HI2YEAR3, HI3YEAR3, HI4YEAR3);

HI_CHILD

=sum(HI1YEAR4, HI2YEAR4, HI3YEAR4, HI4YEAR4);

HI PENSION

=sum(HI1YEAR5, HI2YEAR5, HI3YEAR5, HI4YEAR5);

HI_RETIRE

=sum(HI1YEAR6, HI2YEAR6, HI3YEAR6, HI4YEAR6);

HI_STAMP

=sum(HI1YEAR7, HI2YEAR7, HI3YEAR7, HI4YEAR7);

HI_OTHER1

=sum(HI1YEAR8, HI2YEAR8, HI3YEAR8, HI4YEAR8);

HI OTHER2

=sum(HI1YEAR9, HI2YEAR9, HI3YEAR9, HI4YEAR9);

HI TOT: total household income

=HI_EMPLOY + HI_TANF + HI_SSI + HI_SSDI + HI_CHILD + HI_PENSION + HI_RETIRE + HI_STAMP + HI_OTHER1 + HI_OTHER2;

HI_NOTEMPLOY: total household income other than employment =HI_TOT - HI_EMPLOY;

***Note, all the variables used to create these derived variables (HI1YEAR0 –HI1YEAR9, HI2YEAR0 – HI2YEAR9, HI3YEAR0 –HI3YEAR9, HI4YEAR0 –HI4YEAR9) are not included in the released database, but are included in an ancillary database and are available upon request. Please request them instead of trying to rederive these variables.

Use Poverty Threshold Table (see Appendix) to look up values: Find year subject interviewed (VIS1_DT), size of family unit (HC1), total household income (HI_TOT), and threshold dollar amount.

POVINC (HHS Poverty Guidelines per year)

- 1: HI_TOT <= Threshold
- 0: HI_TOT > Threshold

INCOMEPOVRATIO: Income to poverty ratio

= HI_TOT / Threshold

POVINC120: 120% Income to poverty

1: INCOMEPOVRATIO <= 120

0: INCOMEPOVRATIO >120

USDA FOOD-SECURITY/HUNGER SCALE (FSS)

Instructions: The following questions concern food consumption in your household within the last twelve months and having the monetary means to purchase the necessary foodstuffs. Please think of the time between [current month] last year and today when answering the following questions.

CO-INFORMANT: YES NO				PROXFSS	
A. SCREENER					
 Which of these statements best describes the food eaten in your household in the last 12 months? 	The second secon				
	2. Enough but not always the kind	<u>ds</u> of food	l we want	(SKIP 1a; ASK 1b)	
(If one person in household, use "I" in parentheticals,	3. Sometimes <u>not enough</u> to eat (ASK 1a;	SKIP 1b)	
otherwise, use "We.")	4. Often not enough (ASK 1a; SI	KIP 1b)			
	98. Don't know (dk) (SKIP 1a an 96. Refused (SKIP 1a and 1b)	d 1b)			
		Yes	No	Don't know (dk)	
1A. Here are some reasons why people don't always have enough to eat. For each one, please tell me if	1. Not enough money for food	1	0	98 FSS1A1	
that is a reason why YOU don't always have enough to eat.	2. Not enough time for shopping or cooking	1	0	98 FSS1A2	
(READ LIST. CIRCLE ALL THAT APPLY.)	3. Too hard to get to the store	1	0	98 FSS1A3	
·····,	4. On a diet	1	0	98 FSS1A4	
	5. No working stove available	1	0	98 FSS1A5	
	6. Not able to cook or eat because of health problems	1	0	98 FSS1A6	
		Yes	No	Don't know (dk)	
1B. Here are some reasons why people don't always have the quality or variety of food they want. For	1. Not enough money for food	1	0	98 FSS1B1	
each one, please tell me if that is a reason why YOU don't always have the kinds of food you want to eat. (READ LIST. CIRCLE ALL THAT APPLY.)	2. Kinds of food (I/we) want not available	1	0	98 FSS1B2	
	3. Not enough time for shopping or cooking	1	0	98 FSS1B3	
	4. Too hard to get to the store	1	0	98 FSS1B4	
	5. On a special diet	1	0	98 FSS1B5	

B. FOOD SECURITY SCALE

Instructions: Now, I will read to you a series of food security scenarios. Please indicate if any of these situations has frequently, sometimes, or never been the case in your home during the last year. [If single adult in household, use "I," "my," and "you" in parentheticals; otherwise, use "we," "our," and "your household."]

9A. If YES (above): How often did this happen? (READ ANSWER OPTIONS)	 Almost every month Some months 1-2 months Don't know (dk)
9. In the last 12 months, did (you/you or other adults in your household) ever not eat for a whole day because there wasn't enough money for food?	1. Yes FSS9 0. No <i>(END)</i> 98. Don't know (dk) <i>(END)</i>
<u>2nd-LEVEL SCREEN</u> (screener for Stage 3): If affirmative response to Questions 6, 7 OR 8, continue to Stage 3. Otherwise, STOP HERE and GO TO NEXT SECTION.	
8. In the last 12 months, did you lose weight because you didn't have enough money for food?	1. Yes FSS8 0. No 98. Don't know (dk)
7. In the last 12 months, were you ever hungry but didn't eat because you couldn't afford enough food?	1. Yes FSS7 0. No 98. Don't know (dk)
6. In the last 12 months, did you ever eat less than you felt you should because there wasn't enough money to buy food?	1. Yes FSS6 0. No 98. Don't know (dk)
5A. If YES (above): How often did this happen? (READ ANSWER OPTIONS)	 Almost every month FSS5A Some months 1-2 months Don't know (dk)
5. In the last 12 months, since last (name of current month), did (you/you or other adults in your household) ever cut the size of your meals or skip meals because there wasn't enough money for food?	1. Yes FSS5 0. No <i>(If NO, GO TO #6)</i> 98. Don't know (dk) <i>(If dk, GO TO #6)</i>
<u>1</u>st-<u>LEVEL SCREEN</u> (screener for Stage 2): If affirmative response to Questions 2, 3 OR 4 (i.e., "Frequently" or "Some OR if affirmative response to Question 1 (i.e., answers 3 OR 4), continue Otherwise, STOP HERE and GO TO NEXT SECTION .	
4. (I/we) couldn't afford to eat balanced meals.	1. FrequentlyFSS42. Sometimes3. Never96. Refused98. Don't know (dk)
The food that (I/we) bought just didn't last, and (I/we) didn't have money to get more.	1. FrequentlyFSS32. Sometimes3. Never96. Refused98. Don't know (dk)
2. (I/We) worried whether (my/our) food would run out before (I/we) got money to buy more.	1. FrequentlyFSS22. Sometimes3. Never96. Refused98. Don't know (dk)

DERIVED FOOD SECURITY VARIABLES

Source: Bickel G, Nord M, Price C, Hamilton W, Cook J. "Guide to Measuring Household Food Security", Revised 2000. U.S. Department of Agriculture, Food and Nutrition Service, Alexandria VA. March, 2000. http://www.fns.usda.gov/sites/default/files/FSGuide.pdf

- FSG: Categorical variable for food security status
 - 1: food secure
 - 2: food insecure without hunger
 - 3: food insecure with hunger, moderate
 - 4: food insecure with hunger, severe

FS3G: Categorical variable for food security status

- 1: food secure
- 2: mild food insecure
- 3: severe food insecure

HOUSEHOLD COMPOSITION (HC)

Instructions: In this section, I will ask you some questions regarding the composition of your household.

CO-INFORMANT: YES	<u>NO</u>				PROXHC
1. How many persons live here, including yourself?		HC1(Total)	HC1B (HC1C ((0-5y) (6-12y)	
 2. Who are the members of your household? Codes: 1. Subject 	?	1. <u>Self</u>	HC2RC1 1	HC2AGE1	HC2SX1
 Subject Spouse Son/Stepson Daughter/Stepdaughter Brother/Brother-in-law 		HC2R2 2 HC2R3 3		HC2AGE2	
 6. Sister/Sister-in-law 7. Grandson 8. Granddaughter 9. Other 		HC2R4 4 HC2R5		HC2AGE4	
20. Co-owner		5 HC2R6 6		HC2AGE6	HC2SX6
Indicate sex; use 1= Female; 2= Mal				HC2AGE7 HC2AGE8	
		8 HC2R9 9			
		HC2R10 10 HC2R11	HC2RC11	HC2AGE10 HC2AGE11	
		11 HC2R12 12	HC2RC12	HC2AGE12	HC2SX12
3. Who is the person who rents or owns this house or apartment?	5	Relationship (Enter correspor HH head, en		m column B a le 20 if co-ow	
4. Do you or your family own or rent this hor	me?	1. Owned		2. Rented	HC4
5. How many years have you been living her this (house/ apartment)?	ere in	HC5B1yea	ars	HC5B2	months

6. What is the highest grade you completed in school?	 3. 5th. to 6th. 4. 7th. to 8th. 5. 9th. grade 6. 10th. grade 7. 11th. grade 8. 12th. Grade 9. High school 10. Some coll 11. 1 or more 12. Associate 13. Bachelor's 14. Masters (in 	en to 4th. grade grade grade e ol graduate; HS diploma or equivale lege credit, but less that 1 year years of college; no degree e degree; i.e. AA, AS s degree, i.e. BA, BS, AB i.e. MS, MA, MEng, MBA) nal degree, (i.e. MD, JD, DDS) e degree, (i.e. PhD, EdD) member (dr)	HC6 ent/GED
7. If S is NOT the HOUSEHOLD HEAD: What was the highest grade completed by(HH head)?	 3. 5th. to 6th. 4. 7th. to 8th. 5. 9th. grade 6. 10th. grade 7. 11th. grade 8. 12th. Grade 9. High schood 10. Some coll 11. 1 or more 12. Associate 13. Bachelor's 14. Masters (in 	en to 4th. grade grade grade e e ol graduate; HS diploma or equivale lege credit, but less that 1 year years of college; no degree e degree; i.e. AA, AS s degree, i.e. BA, BS, AB i.e. MS, MA, MEng, MBA) nal degree, (i.e. MD, JD, DDS) e degree, (i.e. PhD, EdD) member (dr)	HC7
 8. CURRENT MARITAL STATUS: W following categories best describes yo status? READ ALL CATEGORIES: Married/living as married/spouse i Spouse not in hh Divorced/separated Widowed Never married 	ur current marital	 Married/ living as married, spore Married, spouse not in hh Divorced/ separated Widowed Never married 	use in hh <mark>HC8</mark>

DERIVED DEMOGRAPHIC AND EDUCATION VARIABLES

AGE: Calculated from date of visit and birth date = int ((VIS1 DT - BDATE) / 365.25)

VIS1 DT: date of first visit

YEARVIS: year of visit

FEMALE: sex of subject 1: female

0: male

HC5: Time in years living at current residence (combination of HC5B1 [years] and HC5B2 [months]).

EDUC: education of subject (collapsed categories from 1^{st} and 2^{nd} versions of the form with very

different questions about education) 1: no schooling 2: kindergarten-4th grade 3: 5th-6th grade 4: 7th-8th grade 4: 7 -8 grade
5: 9th grade
6: 10th grade
7: 11th grade
8: 12th grade/GED 9: some college / no bachelor's degree 10: bachelor's degree 11: at least some graduate school

EDUC3: Reclassified education of subject- USE THIS VARIABLE PREFERABLY OVER EDUC

- 1: No schooling or less than 5^{th} grade (EDUC = 1 OR 2)
- 2: $5^{\text{th}} 8^{\text{th}}$ grade (EDUC = 3 OR 4) 3: $9^{\text{th}} 12^{\text{th}}$ grade OR GED (EDUC = 5, 6, 7, OR 8)
- 4: Some college OR bachelor's degree (EDUC = 9 OR 10)
- 5: At least some graduate school (EDUC = 11)

HHEDUC: education of head of household if subject not head of household (collapsed categories from 1st and 2nd versions of the form with very different questions about education)

1: no schooling 2: kindergarten-4th grade 3: 5th-6th grade 4: 7th-8th grade 5: 9th grade 6: 10th grade 7: 11th grade 8: 12th grade/GED

9: some college / no bachelor's degree 10: bachelor's degree 11: at least some graduate school

- **GRADELE8:** subject education less than or equal to 8th grade 0: Subject with greater than 8th grade education (EDUC > 4) 1: Subject with less than or equal to 8th grade education (EDUC <= 4)

Boston Puerto Rican Health Study Wave 1 (Baseline) Codebook

ACCULTURATION

WORK HISTORY AND INCOME (WH)

Instructions: The following questions will refer to your work history and income.

CO-INFORMANT: YES NO			F	PROXWH
1. Have you ever held a paid job for more than three months?	1. Yes	0. No	(If NO, GO TO #12)	WH1
2. If YES: How old were you when you started your first job?		_ years old	(Enter 998 if dk)	WH2
For the following questions where a COD 1 Professional, Technical and Related Occupa		e of JOB is requi	red, use these job ca	tegories:
 2 Executive, Administrative, and Managerial O 3 Sales Occupations 4 Administrative Support Occupations, Includir 5 Precision Production, Craft, and Repair Occu 6 Machine Operators, Assemblers, and Inspec 7 Transportation and Material Moving Occupat 8 Handlers, Equipment Cleaners, Helpers, and 9 Service Occupations, Except Private House 	ccupations ng Clerical upations tors ions I Laborers			
14 Other				
96 Refused 98 Don't know				
99 Not applicable				
3. What type of job did you do?	WH3A		WH3AC	
	Type of job)	(code)	
4. What type of job have you had during most of your working life?	WH4A		WH4AC	
	Type of job)	(code)	
5. Are you currently working?	1. Yes	0. No	(If NO, GO TO #9)	WH5

6. What is your current job?	WH6A	WH6AC	
	Type of job	(code)	
7. How many hours per week do you work?	hours per week		WH7
8. When do you plan to stop working?	Year: (Enter	[.] 9998 if dk)	WH8
	(Answer and skip t	o #12)	
9. In what year did you stop working?	Year: (Enter	⁻ 9998 if dk)	WH9
10. What was your last job?	WH10A	WH10AC	
	Type of job	(code)	
	Reason:		WH11A WH11AC
11. Why did you stop working? (PROBE: For health reasons?)	 retirement/age accident at work accident/injury not specified health problem related to workplace health problem general family problems or obligations (include getting married/ getting pregnant laid off, company closed or moved problems with employer or co-worke low pay at last job participant moved (from PR, to PR Other 	rs	

12. Who manages the household money?	WH12A Relationship to Subject	_ WH12B_ code
	 Yourself (Study subject) Spouse Son/Stepson Daughter/Stepdaughter Brother/Brother-in-law Sister/Sister-in-law Grandson Granddaughter Other Both Subject & spouse 	
	Co-Manager if applicable WH12C Relationship to Subject	_ WH12D_ code

Note: Household income variables are included in the Demographics & Socioeconomic Status section.

ACCULTURATION (ACC)

CO-INFORMANT: YES	NO	PROXACC
1. Which is your native language?	1. English 2. Spanish 3. Other Specify:ACC1T	ACC1
2. What languages do you speak?	a. English1. Yes2. No3. A littleb. Spanish1. Yes2. No3. A littlec. Other1. Yes2. No3. A littleSpecify:ACC2T	ACC2A ACC2B ACC2C
3. Would you say that you use mostly English or mostly Spanish or both about the same?	 Only English Only Spanish Mostly English Mostly Spanish Both the same 	ACC3
4. Do you know how to read English?	1. Yes 2. No 3. Partially (reason)	ACC4 ACC4T2
5. Do you know how to read Spanish?	1. Yes 2. No 3. Partially (reason)	ACC5 ACC5T
6. If YES or PARTIALLY to both previous questions: Which do you read better?	1. English 2. Spanish 3. Both equally	ACC6
7. Do you know how to write English?	1. Yes 2. No 3. Partially (reason)	ACC7 ACC7T2
8. Do you know how to write Spanish/other?	1. Yes 2. No 3. Partially (reason)	ACC8 ACC8T
9. If YES or PARTIALLY to both previous questions: Which do you write better?	1. English 2. Spanish 3. Both equally	ACC9
10. What language do you use:	Only more Spanish Both more English Spanish than English equally than Spanish	Only English NA
10Afor watching TV?	<u>A. 1 2 3 4</u>	ACC10A 5 6 ACC10B
10Bfor reading newspapers/books? 10Cfor speaking with neighbors?	<u>B. 1 2 3 4</u>	5 6
10Dat work? 10Efor listening to the radio?	<u>C. 1 2 3 4</u>	ACC10C 5 6
10Fwith friends?	D. 1 2 3 4	ACC10D 5 6
10Gwith family?	E. 1 2 3 4	ACC10E 5 6
	F. 1 2 3 4	ACC10F 5 6
	G. 1 2 3 4	ACC10G 5 6

MIGRATION HISTORY (MH)

Instructions: Now I would like to ask you a series of questions regarding your country of origin and other regions you have previously lived in.

CO-INFORMANT: YES NO	PROCMH
1. Where were your parents born?	A. FatherMH2AB. MotherMH2B1. Puerto Rico1. Puerto Rico2. United States2. United States3. Other:MH2AT3. Other:MH2BT97. Don't remember (dr)97. Don't remember (dr)98. Don't know (dk)98. Don't know (dk)
2. Where were you born?	1. Puerto Rico (Skip to #3)MH12. Massachusetts3. New York4. New Jersey5. Illinois6. OtherMH1T
2B. Have you ever lived in Puerto Rico for more than three months at a time?	1. Yes 0. No <i>(If NO, GO TO #6)</i> MH2B_1
2C. If YES : How many times have you lived in Puerto Rico for more than three months at a time?	# of times (Skip to #6) MH2C (If S was born outside US, go to #5)
 In what type of surroundings did you spend most of your time growing up? READ ALL CATEGORIES: Town or city Urban area Rural area Countryside 	 Town or city Urban area, outside the town or city Rural area, outside the city Countryside
4. If S was NOT born in PR, skip to #6 If S was born in PR:	A. Year: OR PROMPT FOR AGE (Enter 9998 if dk)
A. In what year did you leave Puerto Rico for the first time? OR PROMPT FOR AGE	B. Age: years (Enter 998 if dk) MH4C C.
B. How old were you when you left Puerto Rico for the first time?	MH4D
C. In your opinion, why did you leave Puerto Rico?	D. 1. Massachusetts (GO TO #8) 2. Other state (if in U.S.) (GO TO #6) MH4DT2
D. Where did you move to at that time?	 Other country 97. Don't remember (dr) 98. Don't know (dk)

5. FROM 4D: If S did NOT move to the US: In what year did you first move to the	A. Year: OR PROMPT FOR AGE (Enter 9998 if dk)
United States?	B. Age:years MH5B (Enter 998 if dk)
6. In what year did you first move to Massachusetts?	A. Year: OR PROMPT FOR AGE (Enter 9998 if dk)
	B. Age:years MH6B (Enter 998 if dk)
7. Where were you living just prior to moving to Massachusetts?	1. Puerto RicoMH72. Dominican Republic3. Other state (if in U.S.)MH7T14. Other countryMH7T297. Don't remember (dr)98. Don't know (dk)
8. Since leaving (country/state of birth) have you ever gone back to live there for more than three months at a time?	MH8 1. Yes 0. No 98. Don't know (dk) <i>(If NO, GO TO #10)</i>
9. How many times have you gone back to live in (<i>country/state of birth</i>) for more than three months?	times (Enter 998 if dk) MH9
10. Do you expect to move back to(country/state of birth) in the future?	1. Yes 0. No <i>(If NO, GO TO #12)</i> MH10
11. If YES: When/in what year?	year (Enter 9998 if dk) MH11
12. Do you expect to move somewhere else in the next two years?	MH12 1. Yes 0. No (If NO, go to NEXT SECTION)
13. If YES: Who should we contact to get in touch with you in that case?	STOP: Enter contact person information on page 2 in the section labeled 'IDENTIFYING INFORMATION.'

PSYCHOLOGICAL ACCULTURATION SCALE (PAS)

Instructions: The purpose of the following ten questions is to understand your cultural preferences. We are interested in learning which group – either Puerto Ricans or Americans – you feel most comfortable with and can best identify with.

	Only w/PR	More w/PR than Americans	Same among PR and Americans	More w/Americans than PR	Only w/Americans
1. With which group of people do you feel you share most of your beliefs and values ?	1	2	3	4	PAS1 5
2. With which group of people do you feel you have the most in common?			3		
3. With which group of people do you feel most comfortable ?			3		1 400
4. In your opinion, which group of people best understands your ideas (your way of thinking)?			3		PAS4
5. Which culture do you feel proud to be a part of?			3		PAS5
6. In what culture do you know how things are done and feel that you can do them easily ?			3		PAS6
 In what culture do you feel confident that you know how to act? 			3		PAS/
8. In your opinion, which group of people do you understand best?			3		PAS8
9. In what culture do you know what is expected of a person in various situations?			3		
10. Which culture do you know the most about (for example: its history, traditions, and customs)?			3		PAS10

DERIVED ACCULTURATION VARIABLES

MH4: years since left Puerto Rico

LOS_MA: years in Massachusetts

LOS_US: years in United States

CACCULTUR: Language acculturation score 0 to 100% $100 * \sum (ACC10_{A-G} - 1) / (4 * number answered)$

100%: Fully acculturated subject speaks fluent English 0%: Fully unacculturated subject speaks only Spanish

CACCULTURZZ:

0: 0 <= CACCULTUR < 50 1: CACCULTUR >= 50 (%)

ACC2: Reported language spoken

if acc2a=1 and acc2b=2 then acc2=1; if acc2a=2 and acc2b=1 then acc2=2; if acc2a=1 and acc2b=3 then acc2=3; if acc2a=3 and acc2b=1 then acc2=4; if acc2a=1 and acc2b=1 then acc2=5;

PAS: Psychological acculturation score

PAS1 + PAS2 + PAS3 + PAS4 + PAS5 + PAS6 + PAS7 + PAS8 + PAS9 + PAS10;

PAS_A: Psychological acculturation score (algorithm applied: participant mean used in place of missing response of PAS1-PAS10 if 5 or less are missing)

PAS1_A + PAS2_A + PAS3_A + PAS4_A + PAS5_A + PAS6_A + PAS7_A + PAS8_A + PAS9_A + PAS10_A;

PSYCOSOCIAL STATUS

DEPRESSION SCALE (DS)

Instructions: I will now read out loud a series of comments made by different people. After I read each one of them, I would like for you to tell me if you have felt in such a way during the past week. Please use the following categories: [**READ CATEGORIES**].

During the past week, that would be from (<u>date)</u> through today:	Rarely or Never	Some or few times	Occasionally or a moderate amount	Most of the time or all of the time	
 I was bothered by things that usually don't bother me 	0	1	2	3	DS1
2. I did not feel like eating: my appetite was poor	0	1	2	3	DS2
 I felt that I could not shake off the blues even with help from my family or friends 	0	1	2	3	DS3
4. I felt that I was just as good as other people *	3	2	1	0	DS4
 I had trouble keeping my mind on what I was doing 	0	1	2	3	DS5
6. I felt depressed	0	1	2	3	DS6
7. I felt that everything I did was an effort	0	1	2	3	DS7
8. I felt hopeful about the future *	3	2	1	0	DS8
9. I thought my life had been a failure	0	1	2	3	DS9
10. I felt fearful	0	1	2	3	DS10
11. My sleep was restless	0	1	2	3	DS11
12. I was happy *	3	2	1	0	DS12
13. I talked less than usual	0	1	2	3	DS13
14. I felt lonely	0	1	2	3	DS14
15. People were unfriendly	0	1	2	3	DS15
16. I enjoyed life *	3	2	1	0	DS16
17. I had crying spells	0	1	2	3	DS17
18. I felt sad	0	1	2	3	DS18
19. I felt that people disliked me	0	1	2	3	DS19
20. I could not get "going"	0	1	2	3	DS20

*scored in reverse

DERIVED DEPRESSION VARIABLES

CESD SCORE: Depression score

=DS1 + DS2 + DS3 + DS4 + DS5 + DS6 + DS7 + DS8 + DS9 + DS10 + DS11 + DS12 + DS13 + DS14 + DS15 + DS16 + DS17 + DS18 + DS19 + DS20;

CESD_GE_16: Depression score higher then 16

1: CESD_SCORE>=16 0: 0<=CESD_SCORE<16

CESDWRX: Depression score higher than 16 and/or taking anti-depressants

 $1: CESD_GE_{16} = 1 OR MANTDEP = 1$

0: CESD GE 16 = 0 AND MANTDEP = 0

CESDCAT:

1: 0<=CESD_SCORE<=15 2: 16<=CESD_SCORE<22 3: CESD_SCORE>=22

Using the variables below with the algorithm applied increases the number of participants with nonmissing data.

CESD_SCORE_A: algorithm applied using published factor scores to impute values

for subjects missing CESD data

DS1_A + DS2_A + DS3_A + DS4_A + DS5_A + DS6_A + DS7_A + DS8_A + DS9_A + DS10_A + DS11_A + DS12_A + DS13_A + DS14_A + DS15_A + DS16_A + DS17_A + DS18_A + DS19_A + DS20_A;

Note: only the final derived variable (in blue) is included in the released dataset. All other variables having to do with applying the algorithm are available in an ancillary database upon request.

CESD_GE_16_A: Depression score higher then 16 (algorithm applied)

1: CESD_SCORE_A>=16 0: 0<= CESD_SCORE_A <16

CESDWRX_A: Depression score higher than 16 and/or taking anti-depressants (algorithm applied)

1: $CESD_GE_{16}A = 1 \text{ OR MANTDEP} = 1$

 $0: CESD_GE_16_A = 0$ AND MANTDEP = 0

CESDCAT_A: categories of depression (algorithm applied)

1: 0<= CESD_SCORE_A <=15 2: 16<= CESD_SCORE_A <22

3: CESD SCORE A $\geq = 22$

PERCEIVED DISCRIMINATION QUESTIONNAIRE (PDQ)

Instructions: I would now like to ask you a series of questions regarding discrimination.

1. Have you ever experienced discrimination as a result of your race, ethnicity, or language?	1. Yes 0.	PDQ1 No (If NO, go to NEXT SECTION)
2. If YES: Have you been discriminated against in a healthcare establishment?	1. Yes 0.	PDQ2 No (If NO, go to NEXT SECTION)
3. If YES: How often has this happened?	 Frequently Sometimes Few times 	PDQ3
4. Overall, how much has discrimination interfered with your ability to access healthcare?	 A lot/very Somewhat Little None 	PDQ4

PERCEIVED STRESS SCALE (PSS)

Instructions: The questions in this scale ask you about your feelings and thoughts during the last month. In each case, you will be asked to indicate how often you felt or thought a certain way. Although some of the questions are similar, there are differences between them and you should treat each one as a separate question. The best approach is to answer each question fairly quickly. That is, don't try to count up the number of times you felt a particular way, but rather indicate the alternative that seems like a reasonable estimate. — For each question, choose from the following alternatives: [**READ CATEGORIES**]

In the last month…	Never	Almost Never	Every now and then	Often	Very Often	
1how often have you been upset because of something that happened unexpectedly?	0	1	2	3	4	PSS1
2how often have you felt that you were unable to control the important things in your life?	0	1	2	3	4	PSS2
3how often have you felt nervous and "stressed"?	0	1	2	3	4	PSS3
4how often have you dealt successfully with irritating life hassles? *	4	3	2	1	0	PSS4
5how often have you felt that you were effectively coping with important changes that were occurring in your life? *	4	3	2	1	0	PSS5
 6how often have you felt confident about your ability to handle your personal problems? * 	4	3	2	1	0	PSS6
7how often have you felt that things were going your way? *	4	3	2	1	0	PSS7
8how often have you found that you could not cope with all the things that you had to do?	0	1	2	3	4	PSS8

9how often have you been able to control irritations in your life? *	4	3	2	1	0	PSS9
10how often have you felt that you were on top of things? *	4	3	2	1	0	PSS10
11how often have you been angered because of things that happened or were outside of your control?	0	1	2	3	4	PSS11
12how often have you found yourself thinking about things that you have to accomplish?	0	1	2	3	4	PSS12
13how often have you been able to control the way you spend your time? *	4	3	2	1	0	PSS13
14how often have you felt difficulties were piling up so high that you could not overcome them?	0	1	2	3	4	PSS14

* scored in the reverse direction

DERIVED STRESS VARIABLES

Original PSS variables are available upon request.

```
PSS: Perceived stress score
```

PSS1 + PSS2 + PSS3 + PSS4 + PSS5 + PSS6 + PSS7 + PSS8 + PSS9 + PSS10 + PSS11 + PSS12 + PSS 13 + PSS14;

Using PSS_A increases the number of participants with non-missing data.

PSS_A: Perceived stress score (algorithm applied: imputed mean of PSS1-PSS14 if 7 or less are missing)

 $\begin{array}{l} PSS1_A + PSS2_A + PSS3_A + PSS4_A + PSS5_A + PSS6_A + PSS7_A + PSS8_A + PSS9_A + PSS10_A + PSS11_A + PSS12_A + PSS13_A + PSS14_A; \end{array}$

NORBECK SOCIAL SUPPORT QUESTIONNAIRE (NSSQ)

INTERVIEWER: Please read all of the instructions on this page prior to starting with this section.

Instructions: Please list each significant person in your life on the right. Consider all the persons who provide personal support for you or who are important to you.

When making your list, use only the first name or the initials of the person, and then indicate the relationship that you have with each one of them.

Example:

First Name or Initials

Relationship

1	Mary T	friend
2.	Bob	brother
3.	MT	mother
4.	Sam	friend
5.	Mrs. R	neighbor
	etc.	

Use the following list as a guide. Think about the people that are important to you and give the names of as many people as apply in your case.

- spouse or partner
- family members or relatives
- friends
- work or school associates
- neighbors
- health care providers
- counselor or therapist
- minister/priest/rabbi
- other

You do not have to name 16 people. Only name the important people in your life.

WHEN YOU HAVE FINISHED YOUR LIST, PLEASE TURN TO PAGE 28.

© 1980 by Jane S. Norbeck, DNSc University of California, San Francisco Revised 1982, 1995 For each person you included in your list, please answer the following questions by using the number that corresponds to your response.

	0 = not at all 1 = a little 2 = moderately	3 = quite a bit 4 = a great deal	
EMO1		EMO2	
Question 1: How much dc make you fee loved?	es this person I liked or	Question 2: How much does this person make you feel respected or admired?	
1.	EMO1_1	1. EMO2_	1
2.	EMO1_2	2. EMO2_	2
3.	EMO1_3	3. EMO2_	3
4.	EMO1_4	4. EMO2 _	4
5.	EMO1_5	5. EMO2 _	5
6.	EMO1_6	6. EMO2 _	6
7.	EMO1_7	7. EMO2_	7
8.	EMO1_8	8. EMO2 _	8
9.	EMO1_9	9. EMO2 _	9
10.	EMO1_10	10. EMO2_1	0
11.	EMO1_11	11. EMO2_1	11
12.	EMO1_12	12. EMO2_1	2
13.	EMO1_13	13. EMO2_1	3
14.	EMO1_14	14. EMO2_1	4
15.	EMO1_15	15. EMO2_1	15
16.	EMO1_16	16. EMO2_1	6

Note: Before use, pages 27-30 should be cut along the dashed center line to allow the response lines for questions 1-6 to align with the Personal Network list on page 31.

15

EMO4

EMO4 16

For each person you included in your list, please answer the following questions by using the number that corresponds to your response.

0 = not at all	3 = quite a bit
1 = a little	4 = a great deal
2 = moderately	-

EMO3		EMO4	
Question 3: How much ca in this person'		Question 4: How much doo person agree support your a thoughts?	with or
1.	EMO3_1	1.	EMO4_1
2.	EMO3_2	2.	EMO4_2
3.	EMO3_3	3.	EMO4_3
4	.EMO3_4	4.	EMO4_4
5.	EMO3_5	5.	EMO4_5
6.	EMO3_6	6.	EMO4_6
7.	EMO3_7	7.	EMO4_7
8.	EMO3_8	8.	EMO4_8
9.	EMO3_9	9.	EMO4_9
10.	EMO3_10	10.	EMO4_10
11.	EMO3_11	11.	EMO4_11
12.	EMO3_12	12.	EMO4_12
13.	EMO3_13	13.	EMO4_13
14.	EMO3_14	14.	EMO4_14

Note: Before use, pages 27-30 should be cut along the dashed center line to allow the response lines for questions 1-6 to align with the Personal Network list on page 31.

15.

16.

EMO3 15

EMO3 16

15.

16.

For each person you included in your list, please answer the following questions by using the number that corresponds to your response.

	0 = not at al 1 = a little 2 = moderat	4 = a great deal	
AID5		AID6	
Question 5: If you need t \$10, a ride to or some othe help, how me this person u	o the doctor, er immediate uch could	Question 6: If you were confined to bed for several weeks, how much could this person help you?	
1.	AID5_1	1. AID6_1	
2.	AID5_2	2. AID6_2	-
3.	AID5_3	3. AID6_3	
4.	AID5_4	4. AID6_4	
5.	AID5_5	5. AID6_5	-
6.	AID5_6	6. AID6_6	-
7.	AID5_7	7. AID6_7	-
8.	AID5_8	8. AID6_8	_
9.	AID5_9	9. AID6_9	-
10.	AID5_10	10. AID6_10	-
11.	AID5_11	11. AID6_11	
12.	AID5_12	12. AID6_12	
13.	AID5_13	13. AID6_13	-
14.	AID5_14	14. AID6_14	-
15.	AID5_15	15. AID6_15	
16.	AID5_16	16. AID6_16	

Note: Before use, pages 27-30 should be cut along the dashed center line to allow the response lines for questions 1-6 to align with the Personal Network list on page 31.

		ently do you e contact with this hone calls, visits, / mes a year			NETWORK Relationship	
1. DUR1	1.	FREQ1	1.	PN1A	PN1B	
2. DUR2	2.	FREQ2	2.	PN2A	PN2B	
3. DUR3	3.	FREQ3	3.	PN3A	PN3B	
4. DUR4	4.	FREQ4	4.	PN4A	PN4B	
5. DUR5	5.	FREQ5	5.	PN5A	PN5B	
6. DUR6	6.	FREQ6	6.	PN6A	PN6B	
7. DUR7	7.	FREQ7	7.	PN7A	PN7B	
8. DUR8	8.	FREQ8	8.	PN8A	PN8B	
9. DUR9	9.	FREQ9	9.	PN9A	PN9B	
10. DUR10	10.	FREQ10	10.	PN10A	PN10B	
11. DUR11	11.	FREQ11	11.	PN11A	PN11B	
12. DUR12	12.	FREQ12	12.	PN12A	PN12B	
13. DUR13	13.	FREQ13	13.	PN13A	PN13B	
14. DUR14	14.	FREQ14	14.	PN14A	PN14B	
15. DUR15	15.	FREQ15	15.	PN15A	PN15B	
16. DUR16	16.	FREQ16	16.	PN16A	PN16B	

*Please be sure you have rated each person on every question. Go to the last page.

9. During the past year, have you lost any important relationships due to moving, a job change, divorce or separation, death or some other reason?

0. No (If NO, go to NEXT SECTION)	LOSSES
1. Yes (If YES, GO TO #9A)	
If you have lost an important relationship during the past year:	
9A. Please indicate the number of persons from each category who are n	o longer available to you.
Spouse or partner	LOSS1
Family members or relatives	LOSS2
Friends	LOSS3
Work or school associates	LOSS4
Neighbors	LOSS5
Health care providers	LOSS6
Counselor or therapist	LOSS7
Minister/Priest/Rabbi	LOSS8
Other (specify)LOSS9T	LOSS9
9B. Overall, how much of your support was provided by these people who	o are no longer available to you?
0. None	LOSSAMT
1. A little	
2. A moderate amount	
3. A considerable amount	
4. A lot	

DERIVED NORBECK SOCIAL SUPPORT VARIABLES

Contact Luis Falcon (luis falcon@uml.edu) if you have questions about the Norbeck Social Support variables.

 $EMO1 = sum (EMO1_1 - EMO1_16)$

 $EMO2 = sum (EMO2_1 - EMO2_16)$

 $EMO3 = sum (EMO3_1 - EMO3_16)$

 $EMO4 = sum (EMO4_1 - EMO4_16)$

EMOSUP = EMO1 + EMO2 + EMO3 + EMO4

 $\mathbf{AID5} = \mathrm{sum} \left(\mathrm{AID5}_{-1} - \mathrm{AID5}_{-16} \right)$

 $\mathbf{AID6} = \mathrm{sum} \left(\mathrm{AID6}_{1} - \mathrm{AID6}_{16} \right)$

 $\mathbf{AID} = \mathbf{AID5} + \mathbf{AID6}$

NOLISTED: # of people listed in participant's network

DURATION

=sum (DUR1, DUR2, DUR3, DUR4, DUR5, DUR6, DUR7, DUR8, DUR9, DUR10, DUR11, DUR12, DUR13, DUR14, DUR15, DUR16)

FREQCON

=sum (FREQ1, FREQ2, FREQ3, FREQ4, FREQ5, FREQ6, FREQ7, FREQ8, FREQ9, FREQ10, FREQ11, FREQ12, FREQ13, FREQ14, FREQ15, FREQ16)

LOSSNO: # of losses

(IF any of LOSS1-LOSS9 is missing set to zero) =sum(LOSS1,LOSS2,LOSS3,LOSS4,LOSS5,LOSS6,LOSS7,LOSS8,LOSS9)

LOSSEVENT: # of loss events not counting # of losses per event

TLFUNCT

=EMOSUP+AID

AVEEMOSUP:

IF NOLISTED > 0 THEN AVEEMOSUP = EMOSUP/NOLISTED

AVEAID:

IF NOLISTED > 0 THEN AVEAID = AID/NOLISTED

AVEFREQCON:

IF NOLISTED > 0 THEN AVEFREQCON = FREQCON/NOLISTED

Codebook Updated 9.24.24

Variables in grey font are not in the released dataset but are available upon request.

AVEDURA: average duration score

IF NOLISTED > 0 THEN AVEDURA = DURATION/NOLISTED

AVEFUNCT: average functional support score

IF NOLISTED > 0 THEN AVEFUNCT = TLFUNCT/NOLISTED TLNETWRK =NOLISTED+DURATION+FREQCON

TLLOSS

=LOSSES+LOSSNO+LOSSAMT

Only the variables highlighted in blue above are included in the released database. All other Norbeck Social Support questionnaire variables are available upon request. Please contact Luis Falcon (<u>luis_falcon@uml.edu</u>) for further information about these variables and for suggestions on how to include these variables in your analysis.

SOCIAL AND COMMUNITY SUPPORT & ASSISTANCE (SOC)

Instructions: Let's now talk about your family life and social activities within your community.

CO-INFORMANT: YES	NO	PROXSOC	
1. How many LIVING children do you have	children	SOC1	
including step and adopted children?	(If NONE, enter 0 and GO TO #6)		
2. How quickly can (any one of your children/ your son/ your daughter who does not live with you) get here?	SOC2A A (If all children live with and GO TO #6)	SOC2B B. 1. Minutes 2. Hours 3. Days Subject, enter 00	
3. How often do you see (any of your children/ your son/ your daughter who does not live with you)?	A# of times B. 1. Daily 2. Weekly 3. Monthly 4. Yearly 9. Less than once a	SOC3A SOC3B	
4. How often do you talk on the telephone with (any of your children/ your son/ your daughter who does not live with you)?	A# of times B. 1. Daily 2. Weekly 3. Monthly 4. Yearly 9. Less than once a	SOC4A SOC4B	
5. How often do you get mail from (any of your children/ your son/ your daughter who does not live with you)?	A# of times B. 1. Daily 2. Weekly 3. Monthly 4. Yearly 9. Less than once a	SOC5A SOC5B	
6. How many LIVING brothers and sisters do you hav adopted brothers and sisters?	e, including step and	SOC6	
Now, I am going to ask you about services you r In the past 12 months, how many times did you:			
7. Go to a senior center?	A# of times	SOC7A	
	B. 1. Daily 2. Weekly 3. Monthly 4. Yearly 9. Less than once a year/never 97. Don't remember (dr) 98. Don't know (dk)		
8. Use special transportation for older persons? (Do not include special subway or bus passes.)	A# of times B. 1. Daily 2. Weekly 3. Monthly 4. Yearly 9. Less than once a 97. Don't remember		

9. Eat meals delivered to your home by an agency	A# of times	SOC9A
like Meals On Wheels?	 B. 1. Daily 2. Weekly 3. Monthly 4. Yearly 9. Less than once a year/never 97. Don't remember (dr) 98. Don't know (dk) 	SOC9B
10. Get food from a Commodity Food Program	A# of times	SOC10A
(Department of Agriculture's Food Distribution Program)?	 B. 1. Daily 2. Weekly 3. Monthly 4. Yearly 9. Less than once a year/never 97. Don't remember (dr) 98. Don't know (dk) 	SOC10B
11. Use a homemaker service for older persons that provides cleaning and cooking at home?	 A# of times B. 1. Daily 2. Weekly 3. Monthly 4. Yearly 9. Less than once a year/never 97. Don't remember (dr) 98. Don't know (dk) 	SOC11A SOC11B
12. Use a service which makes telephone calls to check on the health of older people?	 A# of times B. 1. Daily 2. Weekly 3. Monthly 4. Yearly 9. Less than once a year/never 97. Don't remember (dr) 98. Don't know (dk) 	SOC12A SOC12B
13. Have a visiting nurse come to your home?	A# of times	SOC13A
	 B. 1. Daily 2. Weekly 3. Monthly 4. Yearly 9. Less than once a year/never 97. Don't remember (dr) 98. Don't know (dk) 	SOC13B
14. Have a health aide come to your home?	A# of times	SOC14A
	 B. 1. Daily 2. Weekly 3. Monthly 4. Yearly 9. Less than once a year/never 97. Don't remember (dr) 98. Don't know (dk) 	SOC14B
15. Go to a day care program for older people?	A# of times	SOC15A
	 B. 1. Daily 2. Weekly 3. Monthly 4. Yearly 9. Less than once a year/never 97. Don't remember (dr) 98. Don't know (dk) 	SOC15B

Now, I will ask you about other activities that you may have engaged in. During the past two weeks how many times did you				
16. Get together with friends or neighbors?	# times	SOC16 97. dr 98. dk		
17. Do any volunteer work?	# times	SOC17 97. dr 98. dk		

10. Tally with friends or neighbors on the telephone?	11 C	SOC18
18. Talk with friends or neighbors on the telephone?	# times	97. dr
		98. dk
		SOC19
19. Get together with ANY relative who doesn't live with you?	# times	97. dr
		98. dk
		SOC20
20. Talk with ANY relative on the telephone?	# times	97. dr
		98. dk
		SOC21
21. Go to church or temple for services or other activities?	# times	97. dr
		98. dk
22. Co to o chow or movie anothe event slub meeting alasses		SOC22
22. Go to a show or movie, sports event, club meeting, classes	# times	97. dr
or other group event?		98. dk
22. Derticipate in any anarte ar evenies (such as self terris		SOC23
23. Participate in any sports or exercise (such as golf, tennis,	# times	97. dr
swimming, running, jogging, any others)?		98. dk
	# times	SOC24
24. Read books, magazines, or newspapers?		97. dr
		98. dk
25 Work at habbies (such as collections, weadworking, playing		SOC25
25. Work at hobbies (such as collections, woodworking, playing	# times	97. dr
a musical instrument, or gardening)?		98. dk
		SOC26
26. Work on home maintenance or small repairs around the	# times	97. dr
home?		98. dk
		SOC27
27. Take care of family members who do not live with you (such	# times	97. dr
as doing child care, looking in on a relative)?	· · · · · · · · · · · · · · · · · · ·	98. dk
		SOC28
28. Help friends or neighbors with something without being	# times	97. dr
paid?		98. dk
29. Thinking about your present social activities, do you feel	1. About enough	SOC29
that you are doing enough, too much, or would like to be doing	2. Too much	
more?	3. Would like to do more	

DERIVED SOCIAL AND COMMUNITY SUPPORT VARIABLES

SOC_SERVICES: social services used

Number of different services used from: SOC7A, SOC8A, SOC9A, SOC10A, SOC11A, SOC12A, SOC13A, SOC14A, SOC15A

SOC_ACTIVITIES: social activities engaged in

Number of different activities engaged in from: SOC16-SOC28

LIFE EVENTS QUESTIONNAIRE (LEQ)

Instructions: The following list includes events that can change the life of those who experience them. Please tell me which of the following events occurred in your life during the past year only. If you have not experienced an event, we will skip that number. For each event which you have experienced, please tell me if such an event was Good or Bad, and if the effect had: [READ CATEGORIES].

Event	Type of		Effect of Event on Your Life				
A. Health	Effect		No effect	Some effect	Moderate effect	Big effect	
 Major personal illness or injury 	Good Bad	LEQ1A	0	1	2	3	LEQ1B
 Major change in eating habits 	Good Bad	LEQ2A	0	1	2	3	LEQ2B
 Major change in sleeping habits 	Good Bad	LEQ3A	0	1	2	3	LEQ3B
 Major change in usual type and/or amount of recreation 	Good Bad	LEQ4A	0	1	2	3	LEQ4B
5. Major dental work	Good Bad	LEQ5A	0	1	2	3	LEQ5B
6. FEMALE: Started menopause	Good Bad	LEQ6A	0	1	2	3	LEQ6B
B. Work							
7. Difficulty finding a job	Good Bad	LEQ7A	0	1	2	3	LEQ7B
8. Beginning work outside the home	Good Bad	LEQ8A	0	1	2	3	LEQ8B
9. Changing to a new type of work	Good Bad	LEQ9A	0	1	2	3	LEQ9B
10. Changing your work hours or conditions	Good Bad	LEQ10A	0	1	2	3	LEQ10B
11. Change in your responsibilities at work	Good Bad	LEQ11A	0	1	2	3	LEQ11B
12. Troubles at work with your employer or co-workers	Good Bad	LEQ12A	0	1	2	3	LEQ12B
 Major business readjustment 	Good Bad	LEQ13A	0	1	2	3	LEQ13B
14. Being fired or laid off from work	Good Bad	LEQ14A	0	1	2	3	LEQ14B
15. Retirement from work	Good Bad	LEQ15A	0	1	2	3	LEQ15B
16. Taking courses by mail or studying at home to help you in your work	Good Bad	LEQ16A	0	1	2	3	LEQ16B
C. School							
17. Beginning or ceasing school, college or training program	Good Bad	LEQ17A	0	1	2	3	LEQ17B
18. Change of school, college or training program	Good Bad	LEQ18A	0	1	2	3	LEQ18B

Boston Puerto Rican Health Study Wave 1 (Baseline) Codebook

19. Change in career goal or academic major	Good Bad	LEQ19A	0	1	2	3	LEQ19B
20. Problem in school, college, or training program	Good Bad	LEQ20A	0	1	2	3	LEQ20B

Event	Type of			Effect of	Event on `	Your Life	
D. Residence	Effect		No effect	Some effect	Moderate effect	Big effect	
21. Difficulty finding housing	Good Bad	LEQ21A	0	1	2	3	LEQ21B
22. Changing residence within the same town or city	Good Bad	LEQ22A	0	1	2	3	LEQ22B
23. Moving to a different town, city, state, or country	Good Bad	LEQ23A	0	1	2	3	LEQ23B
24. Major change in your life conditions (home improvements or a decline in your home or neighborhood)	Good Bad	LEQ24A	0	1	2	3	LEQ24B
E. Love and Marriage							
25. Began a new, close, personal relationship	Good Bad	LEQ25A	0	1	2	3	LEQ25B
26. Became engaged	Good Bad	LEQ26A	0	1	2	3	LEQ26B
27. Girlfriend or boyfriend problems	Good Bad	LEQ27A	0	1	2	3	LEQ27B
28. Breaking up with a girlfriend or boyfriend or breaking an engagement	Good Bad	LEQ28A	0	1	2	3	LEQ28B
29. MALE: Wife or girlfriend's pregnancy	Good Bad	LEQ29A	0	1	2	3	LEQ29B
30. MALE: Wife or girlfriend's having a miscarriage or abortion	Good Bad	LEQ30A	0	1	2	3	LEQ30B
 Getting married (or beginning to live with someone) 	Good Bad	LEQ31A	0	1	2	3	LEQ31B
32. A change in closeness with your partner	Good Bad	LEQ32A	0	1	2	3	LEQ32B
33. Infidelity	Good Bad	LEQ33A	0	1	2	3	LEQ33B
34. Trouble with in-laws	Good Bad	LEQ34A	0	1	2	3	LEQ34B
35. Separation from spouse or partner due to conflict	Good Bad	LEQ35A	0	1	2	3	LEQ35B
36. Separation from spouse or partner due to work, travel, etc.	Good Bad	LEQ36A	0	1	2	3	LEQ36B
37. Reconciliation with spouse or partner	Good Bad	LEQ37A	0	1	2	3	LEQ37B
38. Divorce	Good Bad	LEQ38A	0	1	2	3	LEQ38B

Boston Puerto Rican Health Study Wave 1 (Baseline) Codebook

39. Change in your spouse or partner's work outside the home (beginning to work, ceasing work, changing jobs, retirement, etc).	Good Bad	LEQ39A	0	1	2	3	LEQ39B
---	----------	--------	---	---	---	---	--------

Event	Type of			Effect of		Your Life	
F. Family and Close Friends	Effect		No effect	Some effect	Moderate effect	Big effect	
40. Gain of a new family member (through birth, adoption, relative moving in, etc.)	Good Bad	LEQ40A	0	1	2	3	LEQ40B
41. Child or family member leaving home (due to marriage, to attend college, or for some other reason)	Good Bad	LEQ41A	0	1	2	3	LEQ41B
42. Major change in the health or behavior of a family member or close friend (illness, accidents, drug or disciplinary problems, etc.)	Good Bad	LEQ42A	0	1	2	3	LEQ42B
43. Death of spouse or partner	Good Bad	LEQ43A	0	1	2	3	LEQ43B
44. Death of a child	Good Bad	LEQ44A	0	1	2	3	LEQ44B
45. Death of family member or close friend	Good Bad	LEQ45A	0	1	2	3	LEQ45B
46. Birth of a grandchild	Good Bad	LEQ46A	0	1	2	3	LEQ46B
47. Change in marital status of your parents	Good Bad	LEQ47A	0	1	2	3	LEQ47B
G. Parenting							
48. Change in child care arrangements	Good Bad	LEQ48A	0	1	2	3	LEQ48B
49. Caring for a grandchild	Good Bad	LEQ49A	0	1	2	3	LEQ49B
50. Conflicts with spouse or partner about parenting	Good Bad	LEQ50A	0	1	2	3	LEQ50B
51. Conflicts with child's grandparents (or other important person) about parenting	Good Bad	LEQ51A	0	1	2	3	LEQ51B
52. Taking on full responsibility for parenting as a single parent	Good Bad	LEQ52A	0	1	2	3	LEQ52B
53. Custody battles with former spouse or partner	Good Bad	LEQ53A	0	1	2	3	LEQ53B
H. Personal or Social							
54. Major personal achievement	Good Bad	LEQ54A	0	1	2	3	LEQ54B

Boston Puerto Rican Health Study Wav	e 1 (Baseline) Codebook
boston i dei to mean neurin study wav	

55. Major decision regarding your immediate future	Good Bad	LEQ55A	0	1	2	3	LEQ55B
56. Change in your personal habits (your dress, lifestyle, hobbies, etc.)	Good Bad	LEQ56A	0	1	2	3	LEQ56B
57. Change in your religious beliefs	Good Bad	LEQ57A	0	1	2	3	LEQ57B
58. Change in your political beliefs	Good Bad	LEQ58A	0	1	2	3	LEQ58B
59. Loss or damage of personal property	Good Bad	LEQ59A	0	1	2	3	LEQ59B
60. Took a vacation	Good Bad	LEQ60A	0	1	2	3	LEQ60B
61. Took a trip other than a vacation	Good Bad	LEQ61A	0	1	2	3	LEQ61B

Event	Type of			Effect of	Event on `	Your Life	
H. Personal or Social (Cont.)	Effect		No effect	Some effect	Moderate effect	Big effect	
62. Change in family get- togethers	Good Bad	LEQ62A	0	1	2	3	LEQ62B
63. Change in your social activities (clubs, movies, visiting, etc)	Good Bad	LEQ63A	0	1	2	3	LEQ63B
64. Made new friends	Good Bad	LEQ64A	0	1	2	3	LEQ64B
65. Broke up with a friend	Good Bad	LEQ65A	0	1	2	3	LEQ65B
66. Acquired or lost a pet	Good Bad	LEQ66A	0	1	2	3	LEQ66B
67. Major change in finances (increased or decreased income)	Good Bad	LEQ67A	0	1	2	3	LEQ67B
68. Took on a moderate purchase, such as TV, car, freezer, etc.	Good Bad	LEQ68A	0	1	2	3	LEQ68B
69. Took on a major purchase or a mortgage loan, such as a home, business, property, etc.	Good Bad	LEQ69A	0	1	2	3	LEQ69B
70. Experienced a foreclosure on a mortgage or loan	Good Bad	LEQ70A	0	1	2	3	LEQ70B
71. Credit rating difficulties	Good Bad	LEQ71A	0	1	2	3	LEQ71B
I. Crime and Legal Matters							
72. Being robbed or a victim of identity theft	Good Bad	LEQ72A	0	1	2	3	LEQ72B
73. Being a victim of a violent act (rape, assault, etc.)	Good Bad	LEQ73A	0	1	2	3	LEQ73B
74. Involved in an accident	Good Bad	LEQ74A	0	1	2	3	LEQ74B
75. Involved in a law suit	Good Bad	LEQ75A	0	1	2	3	LEQ75B

76. Involved in a minor violation of the law (traffic ticket, disturbing the peace, etc.)	Good Bad	LEQ76A	0	1	2	3	LEQ76B
77. Legal troubles resulting in your being arrested or held in jail	Good Bad	LEQ77A	0	1	2	3	LEQ77B
J. Other Other recent experiences that had an impact on your life. List and rate.							
78LEQ78T	Good Bad	LEQ78A	0	1	2	3	LEQ78B
79LEQ79T	Good Bad	LEQ79A	0	1	2	3	LEQ79B
80LEQ80T	Good Bad	LEQ80A	0	1	2	3	LEQ80B

DERIVED LIFE EVENTS VARIABLES

GOODSUM: total effect on life (each event ranges from 0 to 3)

BADSUM: total effect on life (each event ranges from 0 to 3)

GOODNUM: count of all good life events

BADNUM: count of all bad life events

PHYSICAL FUNCTION

PHYSICAL PERFORMANCE TESTS (PPT)

1. Handgrip Measurements

Instructions: To assess the strength of your hands, please stand up and grip this device, one hand at a time, with as much strength as possible. We will do this three times with each hand. If you have had any recent arm or hand surgery, we will skip this test. [If subject refuses to do the test, please put 99.9 in the corresponding cells (Questions B thru D). If subject cannot do it, or starts to feel pain or discomfort during the test, please put 0 in the corresponding cells.]

1A. Setting: Interviewer: set the dynamometer to the size of the hand of the subject and record that size here.		PPT1A
Measurements	1. Right Hand (Force in Kg)	2. Left Hand (Force in Kg)
1B. Trial 1	Kg PPT1B1	Kg PPT1B2
1C. Trial 2	Kg PPT1C1	Kg PPT1C2
1D. Trial 3	Kg PPT1D1	Kg PPT1D2

2. Foot Tapping

Instructions: To observe your foot-eye coordination, place your right foot here on the mat between these circles. Tap the ball of your foot on one circle and then the other, back and forth ten times, as fast as you can. First, we'll do the right foot and then the left foot.

	1. Right Foot	2. Left Foot
 2A. Number of Taps 96. Tried, Unable 97. Refused 98. Not performed, safety reasons 99. NA 	PPT2A1	PPT2A2
2B. Time for taps (30 seconds maximum):	PPT2B1	PPT2B2

3. Stand Up from Chair 5 Times

Instructions: The purpose of this next exercise is to measure the strength in your legs. Beginning from a sitting position, please stand up and then sit down five times in a row, as fast as you can, without using your arms to help.

3A. Chair Height: From floor to lowest point of chair	ст. РРТЗА
3B. Chair stands <i>Instructions:</i> You must go from sitting to standing as fast as you can 5 times.	<pre># completed; no arm use PPT3B_1 97. Refused 98. Tried, But Unable 1. Not attempted, safety reasons PPT3B_2 2. Not attempted, chair bound 3. Not attempted, no suitable chair 4. Not attempted, other: Specify PPT3B_2T PPT3B_2C(code) (Code: 97. Refused 98. Tried, But Unable)</pre>
3C. Time: If five stands done successfully	sec. PPT3C

4. Semi-Tandem Stand

Instructions: To assess your balance, I would like you to try to stand with the side of the heel of one foot touching the big toe of the other foot for about ten seconds. You may use your arms, bend your knees, or move your body to maintain your balance, but try not to move your feet. Use whichever foot is more comfortable for you. [If subject needs a walking aid to perform this test, code 0 and skip PPT tests 4-6.]

4A. Total time <i>Instructions: Try to hold this position</i>	# OF SECONDS (up to 10):sec. PPT4A
until I say stop.	 996. Tried but unable 997. Refused 998. Not performed for safety reasons 999. NA 0. Walking aid needed to perform test (If coded as 0, or 996-999, skip tests 4, 5, 6)
4B. Compensatory Movements	a. Moves arms0. No1. Yes99. NAPPT4B_Ab. Trunk swaying0. No1. Yes99. NAPPT4B_B

5. Tandem Stand – Eyes Open

Instructions: Again, to assess your balance with your eyes open, I would like you to try to stand with the heel of one foot in front of and touching the toes of your other foot. Use whichever foot is comfortable for you.

5A. Total time	# OF SECONDS (up to 10):sec. PPT5A
<i>Instructions:</i> Try to hold this position until I say stop.	 996. Tried but unable 997. Refused 998. Not performed for safety reasons 999. NA (If coded as 996-999, go to NEXT SECTION)
5B. Compensatory Movements	a. Moves arms 0. No 1. Yes 99. NA PPT5B_A b. Trunk swaying 0. No 1. Yes 99. NA PPT5B_B

6. Tandem Stand – Eyes Closed

Instructions: Now, I would like you to try standing just like you did before (with one foot in front of the other), but with your eyes closed this time. Try to hold this position with your eyes closed until I say stop.

6A. Total time	# OF SECONDS (up to 10):sec. PPT6A
<i>Instructions:</i> Try to hold this position until I say stop.	996. Tried but unable 997. Refused 998. Not performed for safety reasons 999. NA <i>(If coded as 996-999, go to NEXT SECTION)</i>
6B. Compensatory Movements	a. Moves arms0. No1. Yes99. NAPPT6B_Ab. Trunk swaying0. No1. Yes99. NAPPT6B_B

7. Ten-Foot Walk

Instructions: For this next exercise, I am going to observe how you normally walk. Please walk down past the end of the course and then turn around and walk back to the starting point.

7A. Step Continuity	(If NO 10ft. area available, OBSERVE and record 7A-7C, then go to NEXT SECTION)		
	1. Yes 0. No PPT7A 996. Tried, Unable OR Holds onto object 997. Refused 998. Not performed for safety reasons (If coded as 996-998, go to NEXT SECTION)		
	IF Yes: PPT7A2 A: Observed during 10ft. walk B: Observed during interview session (no 10ft. walk area)		

	 a. Continuous with walking/pivots 0. No 1. Yes 99. NA b. Stagger, Unsteady 0. No 1. Yes 99. NA 	РРТ7В_А РРТ7В_В
7C. Walking aid	1. Yes 0. No 99. NA	PPT7C

Instructions: Now, I would like you to do the same thing again. Just walk at your usual pace.

7D. Time 1	sec.	PPT7D
	996. Tried, Unable OR Holds onto object 997. Refused (If coded as 996-997, go to NEXT SECTION)	

Instructions: Now, I would like you to walk down and back as fast as it feels safe and comfortable to you.

7E. Time 2	sec.	PPT7E
	996. Tried, Unable OR Holds onto object 997. Refused <i>(If coded as 996-997, go to NEXT SECTION)</i>	

INTERVIEWER: Record the setting for the 10 ft walk.

7F. Any difficulty finding 10-12 ft for the walking course?	a) 1. Yes b) If YES,	0. No	PPT7F_A
	explain:	PPT7F_B	PPT7F_BC
			(code)
7G. What type of walking surface?	1. Uncarpeted 2. Low carpet		PPT7G
		PPT7GT	PPT7GC
	3. Other:		(code)

DERIVED PHYSICAL PERFORMANCE TEST VARIABLES

There are multiple levels of "missing" data for the following variables. All levels are treated as missing data in analyses, but when missing is included as a level, can now distinguish in SAS between the following:

Missing	•
Refused	. <i>R</i>
Tried, Unable	. <i>U</i>
Not Applicable	.N
Don't Know	.D
Not Performed, Safety	. <i>S</i>
Don't Remember	.М

PPT2M: Time to complete 5 foot taps

HANDGRIP_SC: Maximum handgrip score

BALANCE_A: Balance time

BBALANCE A: Able to maintain balance for 10 seconds.

1: Yes

0: No

FUNCTIONAL STATUS ACTIVITIES OF DAILY LIVING (ADL)

Instructions: I will now read a list of activities which, for various reasons – either health conditions or disability – some persons may experience difficulty when performing. Please answer if you are able to perform the following activities [**READ CATEGORIES**].

With no difficulty	With some	With a lot of		
	difficulty	difficulty	Impossibl e to do	
0	1	2	3	ADL1
0	1	2	3	ADL2
0	1	2	3	ADL3
0	1	2	3	ADL4
0	1	2	3	ADL5
0	1	2	3	ADL6
0	1	2	3	ADL7
0	1			ADL8
0	1			ADL9
0	1	2		ADL10
0	1	2	3	ADL11
0	1	2	3	ADL12
‡16				
1. Yes			5)	ADL13
			ADL14A	
2. non-H	IH member	-HH members		ADL14B
1. Yes, pa	id by S			ADL15
				ADL15T
 Cane Wheelchair Crutches Walker 			ADL16 ADL16T	
0. Non <i>e</i> 1. Cane 2. Wheelc 3. Crutche 4. Walker				ADL17 ADL17T
	0 1. Yes 3. No 99. NA 0. None 1. Cane 2. Wheelc 3. Crutche 4. Walker 5. Other: 0. None 1. Cane 2. Wheelc 3. Crutche 4. Walker 5. Other: 0. None 1. Cane 2. Wheelc 3. Crutche	0 1 0 No 9 NA 0 None 1 Cane 2 Wheelchair 3 Crutches 4 Walker 5 Other:	0 1 2 1 Yes 0. No 9. NA 1. Yes, paid by S 2. 2A. Yes, paid by other than S 2B. Specify 3. No 99. NA 0. None 1. Cane 2. Wheelchair 3. Crutches 4. Walker 2. Wh	0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 1 Yes 0. No 99. NA 1 Yes, paid by S 2 2. A. Yes, paid by other than S 2.B. Specify

INSTRUMENTAL ACTIVITIES OF DAILY LIVING (IADL)

Instructions: Next I will ask about some other activities. This card specifies answers about how difficult certain activities can be for people. I'm going to ask you about certain activities and ask you to tell me how difficult they are for you to do by yourself, without special equipment. The answers I'll ask you to use are [**READ CATEGORIES**].

CO-INFORMANT: YES NO				Р	ROXIADL
Activity:	With no difficulty	With some difficulty	With a lot of difficulty	Impossible to do	
 Doing chores around the house (like vacuuming, sweeping, dusting, or straightening up)? 	0	1	2	3	IADL1
2. Preparing your own meals?	0	1	2	3	IADL2
3. Managing your money (such as keeping track of your expenses or paying bills)?	0	1	2	3	IADL3
4. Shopping for personal items (such as toiletry items or medications)?	0	1	2	3	IADL4
5. Food shopping?	0	1	2	3	IADL5
6. Using the telephone?	0	1	2	3	IADL6
If NO DIFFICULTY with IADL 1	-6 above, g	o to NEXT S	ECTION		
7. Do you usually need help from another person in doing any of these activities that are difficult for you to do or that you are unable to do by yourself?	1. No 2. (If NO, ski	Yes 99. p to NEXT S	NA Section)		IADL7
8. If YES: 8A. Is there someone to help you?		0. No 99.			IADL8A
8B. If YES: Is this person living in the household?	2. Nor	member n-HH membe h HH and no	er on-HH memb	pers	IADL8B
9. Is this help paid for?	1. No				IADL9
	 Yes, pa Yes, pa Yes, pa NA 		han S		IADL9T

DERIVED FUNCTIONAL STATUS VARIABLES

ADLSUM:

ADL1 + ADL2 + ADL3 + ADL4 + ADL5 + ADL6 + ADL7 + ADL8 + ADL9 + ADL10 + ADL11 + ADL12

ADLCAT: categories of ADLSUM

1: ADLSUM=0 (no impairment)

- 2: 1<=ADLSUM<=5 (some impairment)
- 3: ADLSUM >=6 (considerable impairment)

ADL_SC: ADL binary scale (Tucker 2000) 1: IF ADLSUM>=1 0: IF ADLSUM=0

IADLSUM:

IADL1 + IADL2 + IADL3 + IADL4 + IADL5 + IADL6

IADLCAT: categories of IADLSUM

1: IADLSUM =0 (no impairment) 2: 1<= IADLSUM <=6 (some impairment) 3: IADLSUM >=7 (considerable impairment)

IADL_SC: IADL binary scale (Tucker 2000) 1: IF IADLSUM >= 1 0: IF IADLSUM = 0

Using the variables below with the algorithm applied increases the number of participants with nonmissing data.

ADLSUM_A (algorithm applied):

- ADL1-ADL5: if <=2 are missing, the mean of the non-missing ADL1-ADL5 is used in place of the missing data
- ADL6-ADL9: if <=2 are missing, the mean of the non-missing ADL6-ADL9 is used in place of the missing data
- ADL10-ADL12: if <=1 are missing, the mean of the non-missing ADL10-ADL12 is used in place of the missing data

ADL1_A + ADL2_A + ADL3_A + ADL4_A + ADL5_A + ADL6_A + ADL7_A + ADL8_A + ADL_A + ADL10_A + ADL11_A + ADL12_A

ADLCAT_A: categories of ADLSUM_A

1: ADLSUM_A=0 (no impairment) 2: 1<=ADLSUM_A<=5 (some impairment) 3: ADLSUM_A >=6 (considerable impairment)

IADLSUM_A (algorithm applied):

IADL1-IADL6: if <=3 are missing, the mean of the non-missing IADL1-IADL6 are used in place of the missing data

 $IADL1_A + IADL2_A + IADL3_A + IADL4_A + IADL5_A + IADL6_A$

IADLCAT_A: categories of IADLSUM_A

1: IADLSUM_A =0 (no impairment)

2: 1<= IADLSUM_A <=6 (some impairment)

3: IADLSUM_A >=7 (considerable impairment)

ADL Mobility: (Tucker 2000)

ADLMOBSUM: = ADL1 + ADL2 + ADL3 + ADL4 + ADL5

ADLMOB:

1: IF ADLMOBSUM >= 1 0: IF ADLMOBSUM = 0

ADL self-care: (Tucker 2000)

ADLCARESUM: = ADL6 + ADL7 + ADL8 + ADL9

ADLCARE:

1: IF ADLCARESUM >= 1 0: IF ADLCARESUM = 0

ADL manual dexterity: (Tucker 2000)

ADLMANSUM: = ADL10 + ADL11 + ADL12

ADLMAN:

1: IF ADLMANSUM >= 1 0: IF ADLMANSUM = 0

COGNITION

NEUROPSYCHOLOGICAL EXAMINATION SCORING SHEET See Appendix for Neuropsychological Exams

Instructions: Score subject's neuropsychological examination after completion of interview.

1. Mini-mental State Examination (MMSE)

Question 1MMSE1 (3)Question 2MMSE2 (1)Question 3MMSE3 (1)Question 4MMSE4 (3)Question 5MMSE5 (1)Question 6MMSE6 (1)b. RegistrationMMSE7 (3)Question 7MMSE8 (5)c. RecallMMSE9 (3)	a.	Orientation	
Question 3MMSE3 (1)Question 4MMSE4 (3)Question 5MMSE5 (1)Question 6MMSE6 (1)b. RegistrationMMSE7 (3)Question 7MMSE8 (5)c. Recall		Question 1	MMSE1 (3)
Question 4MMSE4 (3)Question 5MMSE5 (1)Question 6MMSE6 (1)b. RegistrationMMSE7 (3)Question 7MMSE8 (5)c. Recall		Question 2	MMSE2 (1)
Question 5 Question 6MMSE5 (1) MMSE6 (1)b. Registration Question 7 Question 8MMSE7 (3) MMSE8 (5)c. Recall		Question 3	MMSE3 (1)
Question 6 MMSE6 (1) b. Registration Question 7 MMSE7 (3) Question 8 MMSE8 (5) c. Recall		Question 4	MMSE4 (3)
 b. Registration Question 7 Question 8 c. Recall 		Question 5	MMSE5 (1)
Question 7MMSE7 (3)Question 8MMSE8 (5)c. Recall		Question 6	MMSE6 (1)
Question 7MMSE7 (3)Question 8MMSE8 (5)c. Recall	b.	Registration	
c. Recall		-	MMSE7 (3)
		Question 8	MMSE8 (5)
Question 9 MMSE9 (3)	c.	Recall	
		Question 9	MMSE9 (3)
d. Language Tests	d.	Language Tests	
Question 10 MMSE10 (1)		Question 10	MMSE10 (1)
Question 11 MMSE11 (1)		Question 11	MMSE11 (1)
Question 12 MMSE12 (1)		Question 12	MMSE12 (1)
Question 13 MMSE13 (1)		Question 13	MMSE13 (1)
Question 14 MMSE14 (3)		Question 14	MMSE14 (3)
Question 15 MMSE15 (1)		Question 15	MMSE15 (1)
Question 16 MMSECOPY (1)		Question 16	MMSECOPY (1)
2. Word List Learning	2. Word L	ist Learning	
a. List A	a.		
1 st Attempt LIS1 (16)			• •
2 nd Attempt LIS2 (16)			
3 rd Attempt LIS3 (16)			
4 th Attempt LIS4 (16)		•	
5 th Attempt LIS5 (16)		5 th Attempt	LIS5 (16)
b. List B LISB (16)	b.	List B	LISB (16)
c. Short-term Recall LISCPLIB (16)	с. :	Short-term Recall	LISCPLIB (16)
d. Short-term Recall facilitated LISCPPIST (16)	d.	Short-term Recall facilitated	LISCPPIST (16)

e. Long-term Recall LISLPLIB (16)

f. Long-term facilitated g. Recognition	LISLPPIST (16) WLLG (16)
3. Stroop c. Stroop 1 d. Stroop 2 e. Stroop 3	STRPAL STRCOL STRCP
4. Letter Fluency f. 1 st Letter g. 2 nd Letter h. 3 rd Letter	LF1 LF2 LF3
 5. Digit Span a. Digits Forward i. Highest # digits attained ii. Total Score Forward 	DFI (9) ATVERIDE
 b. Digits Backward Highest # digits attained Total Score Backward 	DBI (9) ATVERINV
6. Clock Drawing a. Score	CLOCK (3)
 Figure Copying a. Figure 1 b. Figure 2 c. Figure 3 d. Figure 4 e. Figure 5 f. Figure 6 g. Figure 7 h. Figure 8 i. Figure 9 j. Total 	FC1 (1) FC2 (1) FC3 (1) FC4 (1) FC5 (1) FC6 (1) FC7 (1) FC8 (1) FC9 (1) FC_SUM (9)

DERIVED COGNITION VARIABLES

Contact Tammy Scott <u>tammy.scott@tufts.edu</u> if you have questions about cognitive variables.

MMSEORIENT

=MMSE1 + MMSE2 + MMSE3 + MMSE4 + MMSE5 + MMSE6

MMSELANG

= MMSE10 + MMSE11 + MMSE12 + MMSE13 + MMSE14 + MMSE15

MMSE SUM

= MMSE1 + MMSE2 + MMSE3 + MMSE4 + MMSE5 + MMSE6 + MMSE7 + MMSE8 + MMSE9 + MMSE10 + MMSE11 + MMSE12 + MMSE13 + MMSE14 + MMSE15 + MMSECOPY

MMSE8ATT: Attempted MMSE8

0=No 1=Yes

LISAPR

=LIS1 + LIS2 + LIS3 + LIS4 + LIS5

LISDIS

=(1-((44-WLLG)/44))*100

PCRETREC

= (LISLPLIB/ LIS5)*100

PCINTERF

IF (STRCOL + STRCP)>0 then: PCINTERF=((STRCOL - STRCP)/(STRCOL + STRCP))*100

PMRTOT

=LF1 + LF2 + LF3

FC_SUM

= FC1 + FC2 + FC3 + FC4 + FC5 + FC6 + FC7 + FC8 + FC9

FC WEI SUM

=1*FC1 + 2*FC2 + 3*FC3 + 3*FC4 + 3*FC5 + 3*FC6 + 4*FC7 + 4*FC8 + 4*FC9

ILLITERATE

0=No 1=Yes

LOWVISION

0=No

Codebook Updated 9.24.24 Variables in grey font are not in the released dataset but are available upon request. 1=Yes

COGLANG: Language of the cognitive interview 1=English 2=Spanish

COGNITION SCALED SCORES

Contact Tammy Scott <u>tammy.scott@tufts.edu</u> if you have questions about the following variables.

MMSENORM S PMRTOT T PMRTOT S LISAPR T LISAPR S LISCPLIB T LISCPLIB S LISCPPIST T LISCPPIST S LISLPLIB T LISLPLIB **S LISLPPIST T LISLPPIST S** LISDIS **T** LISDIS **S** ATVERIDE **T** ATVERIDE **S ATVERINV T** ATVERINV **S STRCP T** STRCP

HEALTH BEHAVIORS

TOBACCO USE (TOB)

Instructions: Now, I would like to ask you about the use of tobacco.

CO-INFORMANT: YES NO	PROXTOB
1. Have you smoked at least a hundred or more cigarettes in your lifetime?	TOB10. No(If NO, go to NEXT SECTION)1. Yes
2. How old were you when you first started smoking?	TOB2AGE TOB2YR Age Year
3. Do you currently smoke?	0. No (If NO, GO TO #5) 1. Yes TOB3
4. How many cigarettes, cigars, or pipes do you smoke regularly during one day? <i>(pack=20 cigarettes)</i>	1. Cigarettes TOB4_1 2. Cigars TOB4_2 3. Pipes TOB4_3 (Answer and go to NEXT SECTION)
5. On average how many cigarettes, cigars, or pipes did you regularly smoke a day? <i>(pack=20 cigarettes)</i>	1. Cigarettes TOB5_1 2. Cigars TOB5_2 3. Pipes TOB5_3
6. How old were you when you last smoked or in what y smoking? (<i>If S stopped smoking in the last year, rec</i>	

DERIVED TOBACCO USE VARIABLES

SMOKER: smoking status

0: never (less than 100 cigarettes in entire life) 1: smoked in the past, but not currently

2: currently smoke

TOB2AGE2: calculated age subject started smoking

IF TOB2AGE=. AND TOB2YR>. THEN TOB2AGE2=AGE -(YEARVIS -TOB2YR); IF TOB2AGE>. THEN TOB2AGE2=TOB2AGE;

TOB6AGE2: calculated age subject stopped smoking IF TOB6AGE=. AND TOB6YR>. THEN TOB6AGE2=AGE -(YEARVIS -TOB6YR); IF TOB6AGE>. THEN TOB6AGE2=TOB6AGE;

PACKYEARS:

IF SMOKER = 0 then PACKYEARS = 0
IF SMOKER = 1 then PACKYEARS = (TOB6AGE2 - TOB2AGE2) * number of cigars
 (TOB5_2), pipes (TOB5_3), or packs of cigarettes (TOB5_1/20) smoked
IF SMOKER = 2 then PACKYEARS = (AGE - TOB2AGE2) * number of cigars (TOB5_2),
 pipes (TOB5_3), or packs of cigarettes (TOB5_1/20) smoked

ALCOHOL USE (ALC)

Instructions: The following questions refer to alcohol consumption, including wine, spirits, liquors like whiskey, gin, rum or vodka, cocktails, and mixed alcoholic beverages.

CO-INFORMANT: YES NO	PROXALC
1. Have you had at least 12 drinks of any kind of alcohol during your life? (<i>Do not count small tastes.</i>)	ALC1 1. Yes 0. No (If NO, go to NEXT SECTION)
2. At what age did you begin drinking?	years ALC2
3. Presently, do you drink alcohol?	1. Yes 0. No (If NO, GO TO #7) ALC3
IF CURRENTLY DRINKING:	
4. On average, how often do you drink <u>any</u> type of alcohol?	ALC4A ALC4B A B. 1. Week # days per: 2. Month 3. Year
5. What do you usually drink? (CIRCLE ALL THAT APPLY)	1. Beer ALC5_1 2. Rum ALC5_2 3. Wine ALC5_3 4. Gin ALC5_4 5. Whiskey ALC5_5 6. Other ALC5_6 ALC5_6TALC5_6C(code)
6. On average, on the days that you drink alcohol, how many drinks do you have a day? By a drink, I mean a 12 oz beer, 4 oz glass of wine, or an ounce of liquor.	drinks ALC6 Answer and go to NEXT SECTION)
IF CURRENTLY NOT DRINKING	
7. For how many years did you drink alcohol?	years ALC7
8. What did you usually drink? (CIRCLE ALL THAT APPLY)	1. Beer ALC8_1 2. Rum ALC8_2 3. Wine ALC8_3 4. Gin ALC8_4 5. Whiskey ALC8_5 6. Other ALC8_6 ALC8_6TALC8_6C(code)
9. On average, on the days that you drank alcohol, how many drinks did you have a day? By a drink, I mean a 12 oz beer, a 4 oz glass of wine, or an ounce of liquor.	drinks ALC9 -998 Don't Know

DERIVED ALCOHOL USE VARIABLES

AGE_FIRSTUSE_ALC: age when had first drink

ALC_F: alcohol intake in grams from food frequency questionnaire (includes alcohol in desserts and pastries)

ALCOHOL FREQ: average amount of alcohol consumed

- 0: none within past year
- 1: moderate
- 2: heavy

ALCOHOL_FREQ is calculated separately from the main questionnaire and the FFQ, and the LARGEST of the two is used. It is calculated as follows:

Sex	# drinks per day	ALCOHOL_FREQ
Female	Not currently drinking	0
Female	1	1
Female	>1	2
Male	Not currently drinking	0
Male	1-2	1
Male	>2	2

Main questionnaire: No time frame given; calculated based on questions 4 and 6.

Food frequency questionnaire: Time frame is during the past year; calculated based on estimated grams of daily alcohol intake (ALC_F). Since ALC_F includes alcohol found in vanilla and desserts, the participant had to report drinking at least one alcoholic beverage to be considered for the moderate or heavy drinking categories. Participants who did not report drinking at least one alcoholic beverage were set to 0, regardless of the value of ALC_F.

Sex	Daily alcohol intake (g)	ALCOHOL_FREQ
Female	None reported	0
Female	0 <alc_f<=13.2< td=""><td>1</td></alc_f<=13.2<>	1
Female	>13.2	2
Male	None reported	0
Male	0 <alc_f<=26.4< td=""><td>1</td></alc_f<=26.4<>	1
Male	>26.4	2

ALCOHOL_USE: how often alcohol is consumed

- 0: never
- 1: in the past but not within past year
- 2: within past 30 days
- 3: within past year

Calculated based on both the main questionnaire and the FFQ as follows:

Main questionnaire response	<i>FFQ response (within past year)</i>	ALCOHOL_USE
Never drank alcohol	No alcoholic beverage reported	0
Drank in past, not current	No alcoholic beverage reported	1
Current drinker, "weekly" selected for question 4	N/A	2
Current drinker, "monthly" selected for question 4	N/A	2
Current drinker, "yearly" selected for question 4	N/A	3
Never drank alcohol	Alcoholic beverage reported	3
Have ever had alcohol = yes, but not currently drinking	Alcoholic beverage reported	3
Have ever had alcohol = yes & missing response to currently drinking	Alcoholic beverage reported	3

PHYSICAL ACTIVITY (ACT)

Instructions: Now, I would like to ask you about the different activities you do every day. I will read out loud a list of daily activities, and I would like for you to tell me how many hours, approximately, you spend every day on each given activity. Let's think about this past week as an example.

CO-INFORMANT: YES NO	1	PROXACT
Last week, on a USUAL WEEKDAY (we will do the same for a WEEKEND DAY afterwards), how much time did you spend:	Hours per day for a usual WEEKDAY: A	Hours per day for a usual WEEKEND day: B
1. SLEEPING AND LYING DOWN (even if not sleeping: night-time sleep, naps and reclining) ASK EACH SEPARATELY, THEN SUM.	ACT1A	ACT1B
2. VIGOROUS ACTIVITY: (brisk walking, digging in the garden, strenuous sports, jogging, sustained swimming, chopping wood, heavy carpentry, bicycling on hills, etc.)	ACT2A	ACT2B
3. MODERATE ACTIVITY: (heavy housework, light sports, regular walking, dancing, yard work, painting, repairing, light carpentry, bicycling on level ground, etc.)	АСТЗА	ACT3B
4. LIGHT ACTIVITY: (office work, light housework, driving a car, strolling, personal care, standing with little motion etc.)	ACT4A	ACT4B
5. SITTING ACTIVITY: (eating, reading, watching TV, listening to the radio etc.)	ACT5A	ACT5B
REPEAT QUESTIONS ABOVE FOR COLUMN B ANSWERS		
 TOTAL: (NOTE: Total for each day should add up to 24 hours). 	ACT6A	ACT6B
7. Would you say that during the past week you were less active than usual, more active, or about as active as usual?	 Less active than t More active than As active as usual 	usual
8. How many <u>flights</u> of stairs do you climb up each day?	flights	ACT8
9. How many city blocks or their equivalent do you walk each day?	Or minutes	АСТ9 АСТ9В
10. How much time do you spend watching TV each day?	hours	ACT10

DERIVED PHYSICAL ACTIVITY VARIABLES

MILES: number is miles walked, assuming one mile = 12 blocks or 30 minutes if ACT9 ne . then MILES=ACT9*0.0833; else if ACT9 = . then MILES=ACT9B* 0.0333;

if ACT9 = 0 and ACT9B ne . then MILES=ACT9B* 0.0333; if ACT9 = 0 and ACT9B = . then MILES=ACT9;

EXPEND: energy expenditure calculated using physical activity Expend = (0.9 * WT_KG * ACT_SLEP) + (1.2 * WT_KG * ACT_SIT) + (1.8 * WT_KG * ACT_LT) + (2.8 * WT_KG * ACT_MOD) + (4.5 * WT_KG * ACT_VIG)

PA_SCORE: physical activity score

ACT_SLEP = ((ACT1A*5) + (ACT1B*2)) /7; ACT_VIG = round (((ACT2A*5) + (ACT2B*2)) /7, .01); ACT_MOD = round (((ACT3A*5) + (ACT3B*2)) /7, .01); ACT_LT = round (((ACT4A*5) + (ACT4B*2)) /7, .01); ACT_SIT = round (((ACT5A*5) + (ACT5B*2)) /7, .01); ACTAVSUM = round (sum (of ACT_SLEP ACT_VIG ACT_MOD ACT_LT ACT_SIT), 1);

PA_SCORE = (ACT_SLEP*1.0) + (ACT_SIT*1.1) + (ACT_LT*1.5) + (ACT_MOD*2.4) + (ACT_VIG*5.0);

PAZZ:

1: 0 < PA_SCORE < 30 2: 30 <= PA_SCORE < 40 3: 40 <= PA_SCORE < 50 4: PA_SCORE >= 50

TEE: Total Energy Expenditure

Calculations below from: Food and Nutrition Board, Institute of Medicine, 2005

Men 19 years and older and BMI between 18.5-25 kg/m²

TEE = 662-(9.53*AGE)+(PA_A*((15.91*WT_KG)+(539.6*HT_M)))

IF PAZZ = 1 then weight PA_A 1.00 IF PAZZ = 2 then weight PA_A 1.11 IF PAZZ = 3 then weight PA_A 1.25 IF PAZZ = 4 then weight PA_A 1.48

Women 19 years and older and BMI between 18.5-25 kg/m²

TEE = 354-(6.91*AGE)+(PA_A*((9.36*WT_KG)+(726*HT_M)))

IF PAZZ = 1 then weight PA_A 1.00 IF PAZZ = 2 then weight PA_A 1.12 IF PAZZ = 3 then weight PA_A 1.27 IF PAZZ = 4 then weight PA_A 1.45

Overweight and obese men aged 19 years and older with $BMI \ge 25 \text{ kg/m}^2$

TEE = 1086-(10.1*AGE)+(PA_A*((13.7*WT_KG)+(416*HT_M)))

IF PAZZ = 1 then weight PA_A 1.00 IF PAZZ = 2 then weight PA_A 1.12 IF PAZZ = 3 then weight PA_A 1.29 IF PAZZ = 4 then weight PA_A 1.59

Overweight and obese women aged 19 years and older with $BMI \ge 25 \text{ kg/m}^2$

TEE = 448-(7.95*AGE)+(PA A*((11.4*WT KG)+(619*HT M)))

IF PAZZ=1 then weight PA_A 1.00 IF PAZZ=2 then weight PA_A 1.16 IF PAZZ=3 then weight PA_A 1.27 IF PAZZ=4 then weight PA_A 1.44

Normal and Overweight/Obese Men aged 19 years and older with $BMI >= 18.5 \text{ kg/m}^2$

 $TEE = 864-(9.72*AGE)+(PA_A*((14.2*WT_KG)+(503*HT_M)))$

IF PAZZ = 1 then weight PA_A 1.00 IF PAZZ = 2 then weight PA_A 1.12 IF PAZZ = 3 then weight PA_A 1.27 IF PAZZ = 4 then weight PA_A 1.54

Normal and Overweight/Obese Women aged 19 years and older with BMI $\geq 18.5 \text{ kg/m}^2$

TEE = 387-(7.31*AGE)+(PA_A*((10.9*WT_KG)+(660.7*HT_M)))

IF PAZZ = 1 then weight PA_A 1.00 IF PAZZ = 2 then weight PA_A 1.14 IF PAZZ = 3 then weight PA_A 1.27 IF PAZZ = 4 then weight PA_A 1.4

HEALTH AND HEALTH CARE (HHC)

Instructions: To continue, I will ask you a series of questions regarding your health status and health care.

CO-INFORMANT: YES	SNO			PROXHHC
	ould you say your health in general is lent, very good, good, fair, or poor?			HHC1
2. Where do you most often	go for health care?	 Primary care doctor Neighborhood clinic Emergency room Other Specify HHC2_4T 	0. No 0. No 0. No 0. No 0. No	1. Yes HHC2_1 1. Yes HHC2_2 1. Yes HHC2_3 1. Yes HHC2_4
3. How long has it been sind visit for health advice or care	 w long has it been since your most recent br health advice or care? 1. Less than 1 month 2. 1 month, less than 6 month 3. 6 months, less than 1 year 4. 1 year, less than 5 years 5. 5 or more years 98. Don't know (dk) 			ННС3
 In general, how satisfied care you received at your las say you were very satisfied, satisfied, or not at all satisfie Sometimes people have 	st visit? Would you satisfied, somewhat d?	 Very satisfied Satisfied Somewhat satisfied Not at all satisfied 		HHC4 HHC5
medical care. Have you had getting medical care?		1. Yes 0. No (If NC	D, go to N	EXT SECTION)
5A. If YES: Why? DO NOT READ ANSWERS. USE THEM TO CODIFY SUBJECTS' RESPONSE. CIRCLE UP TO 3 CHOICES THAT APPLY.	 Office/clinic staff S had no confide Personnel did no 	ere to go ay to get there a not convenient ong from work ne clinic was too long was disrespectful ence in the staff ot speak Spanish		
	12. There were no ⊢ 13. Other reason:	lispanic staff members at the o	office/clinic	; HHC6T

HEALTH INSURANCE (INS)

Instructions: In this following section, I will ask you a series of questions regarding your health insurance.

CO-INFORMANT: YES NO			PR	OXINS
1. Do you currently have health insurance				
coverage?	0. No (If NO,	GO TO #3A)	1. Yes	INS1
2. If YES: What type of insurance do you have? (CIRCLE ALL THAT APPLY)	1. Medicare 2. MASS Heal 3. Boston Hea 4. NHP 5. Fallon 6. Tufts 7. HPHC 8. HMO Blue 9. Travelers 10. Other	th	0. No 1. Yes 0. No 1. Yes	INS2_2 INS2_3 INS2_4 INS2_5 INS2_6 INS2_7 INS2_8 INS2_9
3A. If NO , for how long have you been without coverage?	INS3A (# OF A # of:		0. No 1. Yes NS3A2 (YR, N ears 2. Months 3	 ITH, WK)
3B. Do you use a free care program?	B. 0. No	1. Yes		INS3B
Does your insurance cover: 4. Medical visits 5. Hospital visits 6. Specialists' services 7. Mental health services 8. Prescribed medications 9. Dental care	0. No 0. No 0. No 0. No 0. No 0. No	1. Yes 1. Yes 1. Yes 1. Yes 1. Yes 1. Yes		INS4 INS5 INS6 INS7 INS8 INS9
10. Is the cost of healthcare a barrier to your seek	ing treatment?	0. No	1. Yes	INS10
11. Does the cost of healthcare ever delay or prevadhering to treatment recommendations?	-	0. No	1. Yes	INS11
12. During the past 10 years, was there a period w without health insurance for a period of six months		0. No	1. Yes	INS12

DERIVED INSURANCE VARIABLE

INS3: Length of time (years) without health insurance coverage (combination of INS3A and INS3A2)

MEDICAL DIAGNOSES

BLOOD PRESSURE

BLOOD PRESSURE #1 (BPA)

	1. SYSTOLIC	2. DIASTOLIC	3. PULSE	4. TIME
A. MEAS. 1	SYS1A	DIAS1A	PULSE1A	BP1AT (time)
				BP1AT2 (a.m./p.m.)
B. MEAS. 2	SYS1B	DIAS1B	PULSE1B	BP1 BT (time)
				BP1BT2 (a.m./p.m.)

BLOOD PRESSURE #2 (BPB)

	1. SYSTOLIC	2. DIASTOLIC	3. PULSE	4. TIME
A. MEAS. 1	SYS2A	DIAS2A	PULSE2A	BP2AT (time)
				BP2AT2 (a.m./p.m.)
B. MEAS. 2	SYS2B	DIAS2B	PULSE2B	BP2BT (time)
				BP2BT2 (a.m./p.m.)

BLOOD PRESSURE #3 (BPC)

	1. SYSTOLIC	2. DIASTOLIC	3. PULSE	4. TIME
A. MEAS. 1	SYS3A	DIAS3A	PULSE3A	BP3AT (time)
				BP3AT2 (a.m./p.m.)
B. MEAS. 2	SYS3B	DIAS3B	PULSE3B	BP3BT (time)
				BP3BT2 (a.m./p.m.)

DERIVED BLOOD PRESSURE VARIABLES

SYSBP: average systolic blood pressure	
Average of SYS2A, SYS2B, SYS3A and SYS3E	3

- **SYSBP_IMPUTE:** imputed average systolic blood pressure 1: SYSBP created using less than 4 systolic blood pressure measurements
- **SYSBPZZ:** clinical variable systolic hypertension (Chobanian et al. 2003)
 - 0: SYSBP <140 or DIASBP >= 90
 - 1: SYSBP >= 140 and DIASBP < 90
- **DIASBP:** average diastolic blood pressure Average of DIAS2A, DIAS2B, DIAS3A and DIAS3B

DIASBP_IMPUTE: imputed average diastolic blood pressure 1 = DIASBP created using less than 4 diastolic blood pressure measurements

HIGHBP: categories of blood pressure

- 1 = SYSBP >= 140 or DIASBP >= 90
- 0 = SYSBP < 140 and DIASBP < 90

HTN: categories of hypertension (NIH 1997)

- 0: 0<=SYSBP<140 and 0<=DIASBP<90 and HTNMED=0 (not taking hypertension meds)
- 1: SYSBP>=140 or DIASBP>=90 or HTNMED=1 (taking hypertension meds)
- **HTNMED:** Taking hypertension medications (See Medication Section)
 - 1: Yes
 - 0: No

ALLOHIGHBP: alternative categories of blood pressure

0 = SYSBP < 148 and DIASBP < 83

1 = SYSBP >= 148 or DIASBP >= 83

ANTHROPOMETRY (ANT)

Instructions: Now I will take measurements of your Weight, Height, and Waist and Hip Circumferences.

1. Have you lost or gained weight in the last 6 months?	1. Yes 0. No 98.Don't Know (<i>If NO, GO TO #5</i>)	
If YES: How many pounds have you lost or gained?	a)lbs. (Enter 998 if)	ANT2A
	b) 1. Lost 2. Gained	ANT2B
3. Was the weight loss/gain intentional?	1. Yes 0. No 98. Don <i>(If YES, GO TO #5)</i>	ANT3 't know (dk)
4. If NO: Why do you think you lost or gained weight?		ANT4
 Weight: 997 - not performed for safety reasons 998 - subject refused measurement 999 - unable to obtain measurement 	a)Lbs. b)Lbs.	ANT5A ANT5B
 Standing Height: 997 - not performed for safety reasons 998 - subject refused measurement 999 – unable to obtain measurement 	a)cm. b)cm.	ANT6A ANT6B
 Posture: 997 - not performed for safety reasons 998 - subject refused measurement 999 – unable to obtain measurement 	 Straight Slightly stooped - (between straight and 4 Very stooped - (45° angle) 	ANT7 5° angle)
 Knee height: 997 - not performed for safety reasons 998 - subject refused measurement 999 – unable to obtain measurement 	a)cm. b)cm.	ANT8A ANT8B
 9. Waist: Measurement at point of bellybutton 997 - not performed for safety reasons 998 - subject refused measurement 999 – unable to obtain measurement 	a)cm. b)cm.	ANT9A ANT9B
 Hip: Measurement at highest point 997 - not performed for safety reasons 998 – subject refused measurement 999 – unable to obtain measurement 	a)cm. b)cm.	ANT10A ANT10B

DERIVED ANTHROPOMETRY VARIABLES

KNEE_HT: average knee height (cm) KNEE_HT = (ANT8A + ANT8B)/2

HT_M: average of height measurements (m)

Height is calculated using the following formula for all subjects except those with lower body amputations.

 $HT_M = (ANT6A/100 + ANTB/100)/2$

Note: For subjects with lower body amputations, height is calculated using the following algorithm. If OBS7A=2 (i.e. if the subject have lower body amputations), then $HT_M=(68.68 + 1.90*KNEE_HT - 0.123*AGE)/100$ for Females. $HT_M=(76.02 + 1.79*KNEE_HT - 0.070*AGE)/100$ for Males.

- WT_KG: average of weight measurements (kg) = (ANT5A/2.2 + ANT5B/2.2)/2;
- WAIST: average of waist measurements (cm) = (ANT9A + ANT9B)/2;
- **HIP:** average of hip circumference measurements (cm) = (ANT10A + ANT10B)/2;

BMI: body mass index

BMI = WT_KG/ (HT_M * HT_M) Where WT_KG is the average of weight measurements (kg) and HT_M is the average of height measurements (m) *Note:* For subjects with lower body amputations, height is calculated using the formula above.

BMI_IMPUTE: imputed body mass index

1: subject has lower body amputation, and height and BMI were calculated using the algorithm above

BMIZZ (NIH 2000)

0: 0 <= BMI < 25 1: 25 <= BMI < 30 2: 30 <= BMI

BMIZZ2

0: 0 <= BMI < 18.5 1: 18.5 <= BMI < 25 2: 25 <= BMI < 30 3: 30 <= BMI < 35 4: 35 <= BMI < 40 5: 40 <= BMI

WAISTHIP: ratio of waist (in cm) to hip measurements (in cm) = WAIST / HIP

WAISTZZ (NIH 2000)

0: For males if WAIST <= 102; For females if WAIST <= 88 1: For males if WAIST > 102; For females if WAIST > 88

WAISTHIPZZ (Bjorntorp 1987, WHO 2000, Gibson 2005)

0: For males if $0 \le WAISTHIP \le 1$; For females if $0 \le WAISTHIP \le 0.85$

1: For males if WAISTHIP > 1; For females if WAISTHIP > 0.85

Codebook Updated 9.24.24

Variables in grey font are not in the released dataset but are available upon request.

MEDICAL DIAGNOSES (MED)

Instructions: In the following section, I will ask you a series of questions regarding a variety of medical diagnoses.

CO-INFORMANT: YESNO				PROXMED
Has a DOCTOR ever told you that you had any of the following illnesses or conditions	NO	YES	Taking Medication for this?	Is this Condition Bothering you Currently?
1. Diabetes?	0	MED1 1	MED1B 0. No 1. Yes	MED1C 0. No 1. Yes
2. High blood pressure/Hypertension?	0	MED2 1	0. No 1. Yes	MED2C 0. No 1. Yes
3. Overweight/obesity?	0	MED3 1	0. No 1. Yes	MED3C 0. No 1. Yes
4. Arthritis?	0	MED4 1	0. No 1. Yes	MED4C 0. No 1. Yes
5. Osteoporosis (hip fracture)?	0	MED5	MED5B 0. No 1. Yes	MED5C 0. No 1. Yes
6. Heart Attack?	0	MED6	0. No 1. Yes	MED6C 0. No 1. Yes
7. Heart Disease (other than heart attack)?	0	MED7	0. No 1. Yes	MED7C 0. No 1. Yes
8. Stroke?	0	MED8	0. No 1. Yes	MED8C 0. No 1. Yes
9. Respiratory disease (such as emphysema,	0	MED9	0. No 1. Yes	MED9C 0. No 1. Yes
chronic bronchitis, asthma?) 10. Liver or gallbladder disease?	0	MED10	0. No 1. Yes	MED10C 0. No 1. Yes
11. Kidney disease?	0	MED11	MED11B	MED11C
12. Stomach/ Intestinal Disorder, Stomach		MED12	0. No 1. Yes MED12B	0. No 1. Yes MED12C
Ulcer 13. Parkinson's Disease?	0	1 MED13	0. No 1. Yes MED13B	0. No 1. Yes MED13C
14. Skin Cancer?	0	1 MED14	0. No 1. Yes MED14B	0. No 1. Yes MED14C
15. Other type of Cancer? MED15T	0	1 MED15	0. No 1. Yes MED15B	0. No 1. Yes MED15C
	0	1 MED16	0. No 1. Yes MED16B	0. No 1. Yes MED16C
16. Eye Disease: Cataract or Glaucoma?	0	1 MED17	0. No 1. Yes	0. No 1. Yes
17. Anxiety?	0	1	MED17B 0. No 1. Yes	MED17C 0. No 1. Yes
18. Depression?	0	MED18 1	MED18B 0. No 1. Yes	MED18C 0. No 1. Yes
19. Seizures, Convulsions?	0	MED19 1	MED19B 0. No 1. Yes	MED19C 0. No 1. Yes
20. Tuberculosis?*	0	MED20 1 MED21	MED20B 0. No 1. Yes MED21B	MED20C 0. No 1. Yes MED21C
21. Hepatitis (Type A, B, or C)?*	0	1 MED22	0. No 1. Yes MED22B	0. No 1. Yes MED22C
22. AIDS/HIV positive?*	0	1 MED23	0. No 1. Yes MED22B	0. No 1. Yes MED23C
23. Other*MED23T	0	1 MED24	0. No 1. Yes MED24B	0. No 1. Yes MED24C
24. Other*MED24T	0	1	0. No 1. Yes	0 No 1 Yes

* The asterisk marked medical conditions were added to the Medical conditions Module after 20th Jan 2005.

Codebook Updated 9.24.24

Variables in grey font are not in the released dataset but are available upon request.

MENOPAUSE

(FEMALES ONLY)

1. Have you already gone through or are you currently going though menopause?	MENO1* 1. Yes 0. No (If NO, go to NEXT SECTION)	
 If Subject had a hysterectomy, record the year when- or age at which the Subject underwent the procedure: 	AgeHYSTERECTOMYAGE YearHYSTERECTOMYYEAR (Go to NEXT SECTION)	
3. How old were you when you had your last menstrual period?	MENO2AGE MENO2YR Age Year	

* Females over age 58 who had a no/missing response to menopause (n=16) were assigned a value of 1.

DERIVED CLINICAL MEASUREMENTS AND CONDITIONS VARIABLES

MENO2AGE2: age of menopause onset for females

IF MENO2AGE=. and MENO2YR>. then MENO2AGE2=HC2AGE1 - (YEARVIS - MENO2YR) IF MENO2AGE>. then MENO2AGE2=MENO2AGE;

HYSTERECTOMY: indicates if hysterectomy performed on females

1: yes

0: no

HYSTERECTOMYAGE2: age of hysterectomy

DIABETES (Tucker, Bermudez, Castaneda, 2000) 0: GLUC < 126 and MANTIDB = 0 1: GLUC >= 126 or MANTIDB = 1

ANEMIAZZ (WHO 1968)

0: Male: HGB_ADJ >= 13 Female: HGB_ADJ >= 12 1: Male: HGB_ADJ < 13 Female: HGB_ADJ < 12

ANEMIA2ZZ (CDC 1998) 0: Male: HCT_ADJ >= 39.9 Female: HCT_ADJ >= 35.7 1: Male: HCT_ADJ < 39.9 Female: HCT_ADJ < 35.7

ANEMIA3ZZ

0: ANEMIAZZ=0 and ANEMIA2ZZ=0 1: ANEMIAZZ=1 or ANEMIA2ZZ=1

HEARTDX: Self-report of heart disease, heart attack or stroke 0: If MED6=0 AND MED7=0 AND MED8=0 1: If MED6=1 OR MED7=1 OR MED8=1

MEDCOND_A: Medical Conditions Score

The formula for MEDCOND_A is based on the mean imputation technique. This technique is used to estimate the missing values by replacing the missing values with the arithmetic average of the non-missing/observed values.

MEDCONDX + (14-MEDCOND_N)*MEDCOND_MEAN Where

MEDCONDX is the sum of medical conditions reported including DIABETES, HTN, MED4, MED6, MED7, MED8, MED9, MED10, MED11, MED13, MED15, MED20, MED21 & MED22.

MEDCOND_N is the number of medical conditions (for which the response [if Present or Absent] has been received)

MEDCOND_MEAN is the arithmetic average of the medical conditions.

Note: If three or less Medical Conditions are missing then the above-mentioned formula for MEDCOND_A is used, whereas if more than 3 Medical Conditions are missing then MEDCOND_A = missing.

DERIVED METABOLIC SYNDROME VARIABLES

MSWAIST

0: For males if 0 <= WAIST <= 102 For females if 0 <= WAIST <= 88
1: For males if WAIST > 102 For females if WAIST > 88 Where WAIST is the average of the Waist Measurement (in cm)

MSTRIG

- 0: 0 <= TRIG < 150 and MANTILIP=0
- 1: TRIG >= 150 or MANTILIP=1

MSHDL

0: For males if HDL >= 40 and MANTILIP=0 For females if HDL >= 50 and MANTILIP=0

1: For males if 0 <= HDL < 40 or MANTILIP=1 For females if 0 <= HDL < 50 or MANTILIP=1

MSBP

0: 0<=SYSBP<130 and 0<=DIASBP<85 and HTNMED=0

1: SYSBP >= 130 or DIASBP >= 85 or HTNMED=1

MSGLUC

0: 0 <= GLUC < 100 and MANTIDB=0 1: GLUC >= 100 or MANTIDB=1

MET1

MSWAIST + MSTRIG + MSHDL + MSBP + MSGLUC

```
If MET1=. then MET2=SUM(MSWAIST, MSTRIG, MSHDL, MSBP, MSGLUC); IF MET2 >= 3 then MET3 = MET2;
ELSE MET3 = MET1;
```

METABOLICNCEPM (Expert Panel on Detection 2002, Grundy et al 2005)

0: 0 =< MET3 < 3 1: MET3 >= 3

MSWAIST2

0: For males if 0 <= WAIST < 90 For females if 0 <= WAIST < 80 1: For males if WAIST >= 90 For females if WAIST >= 80

MET4

MSTRIG + MSHDL + MSBP + MSGLUC

```
If MET4 = . then MET5 = SUM(MSTRIG, MSHDL, MSBP, MSGLUC); IF MET5 >= 2 then MET6 = MET5;
ELSE MET6 = MET4;
```

METABOLICIDF (Alberti et al. 2006) 0: 0 =< MET6 < 2 or MSWAIST2 = 0 1: MET6 >= 2 and MSWAIST2 = 1

FRAMINGHAM RISK SCORES

****Note: These variables include participants with reported pre-existing heart disease. Please clearly indicate this in any use (unless participants with pre-existing heart disease are excluded).

Derived using: Wilson PW, D'Agostino RB, Levy D, Belanger AM, Silbershatz H, Kannel WB. Circulation. "Prediction of coronary heart disease using risk factor categories." 1998 May 12;97(18):1837-47.

- **PROB10CHD:** Estimated probability of 10 year coronary heart disease risk using total cholesterol categories (Table 6 and appendix equations from the Wilson 1998 paper). This is a truly continuous estimate.
- **CVDC_10:** Estimated probability of 10 year coronary heart disease risk using total cholesterol categories (Figures 3 and 4 from the Wilson 1998 paper). This is divided into categories for scoring purposes.

Boston Puerto Rican Health Study Wave 1 (Baseline) Codebook

ALLOSTATIC LOAD

ALLOLOADCLINICALMED:

Score ranging from 0-10, where 0 is best and 10 is worst.

The ALLOLOADCLINICALMED score is the sum of the following variables: BPALLO + MSWAIST + LIPIDALLO + Q4GLYHGBMED2 + Q4CORT_SEX + Q4NOREPI_SEX + Q4EPI_SEX + Q1DHEASMED2

Components of ALLOLOADCLINICALMED:

BPALLO: Blood pressure and anti-HTN med use

2: (if SYSBP >140 and DIASBP >90 and anti-hypertension medications) OR (if SYSBP >140 and DIASBP >90 and no anti-hypertension medications)
1: (if SYSBP > 140 and 0< DIASBP <=90 and no anti-hypertension medications) OR (if 0 < SYSBP <=140 and DIASBP > 90 and no anti-hypertension medications) OR (if SYSBP >140 and 0 < DIASBP <=90 and anti-hypertension medications) OR (if SYSBP >140 and 0 < DIASBP <=90 and anti-hypertension medications) OR (if 0 < SYSBP <=140 and DIASBP > 90 and anti-hypertension medications)

0: if 0 < SYSBP <= 140 and 0 < DIASBP <= 90 and no anti-hypertension medications

Sub-components of BPALLO:

SYSBP: average systolic blood pressure Average of SYS2A, SYS2B, SYS3A and SYS3B

DIASBP: average diastolic blood pressure Average of DIAS2A, DIAS2B, DIAS3A and DIAS3B

HTNMED: taking anti-hypertension medications 0 = No, 1 = Yes

MSWAIST: Waist circumference (cm)

 For males if WAIST > 102 cm For females if WAIST > 88 cm
 For males if 0 <= WAIST <= 102 cm For females if 0 <= WAIST <= 88 cm

Sub-components of waist circumference (MSWAIST):

WAIST: average of waist measurements (cm), i.e. ANT9A and ANT9B

LIPIDALLO: Lipids and statin use

2: (if HDL < 40 and CHOL >= 240 and taking antilipemic agents) OR (if HDL < 40 and CHOL >= 240 and no antilipemic agents) OR (if HDL < 40 and 0 < CHOL <= 240 and taking antilipemic agents)
1: (if HDL < 40 and 0 < CHOL < 240 and no antilipemic agents) OR (if HDL >= 40 and CHOL >= 240 and no antilipemic agents) OR (if HDL >= 40 and CHOL >= 240 and taking antilipemic agents) OR (if HDL >= 40 and CHOL >= 240 and taking antilipemic agents) OR (if HDL >= 40 and CHOL >= 240 and taking antilipemic agents) OR (if HDL >= 40 and 0 < CHOL < 240 and taking antilipemic agents)
0: (if HDL >= 40 and 0 < CHOL < 240 and no antilipemic agents)

Sub-components of LIPIDALLO:

HDL: high density lipoprotein (HDL) (mg / dL)
CHOL: cholesterol (mg / dL)
MANTILIP: taking antilipemic agents 0=No, 1=yes

Q4GLYHGBMED2: Glycosolated hemoglobin (GLYHGB) and anti-diabetic med use

1: if GLYHGB >7 and/or anti-diabetic medications are taken 0: if the GLYHGB <=7 and no anti-diabetic medications are taken

Q4CORT_SEX: Urine cortisol, adjusted for urine volume and creatinine excretion

- 1: For males if CORT >= 41.5 For females if CORT >= 49.5
- **0:** For males if 0 <= CORT <41.5 For females if 0 <= CORT <49.5

```
Sub-components Q4CORT_SEX:
```

CORT: urinary cortisol: CORTMG * URINEVOL / CREATEXC

Where **CORTMG:** Cortisol (mg) URINEVOL: urine volume (mL/bout) CREATEXC: creatinine excretion (gm/bout)

Q4EPI_SEX: Urine epinephrine, adjusted for urine volume and creatinine excretion

```
    For males if EPI >= 2.8
For females EPI >= 3.6
    For males if 0<= EPI <2.8
For females if 0<= EPI <3.6</li>
```

Sub-component of Q4EPI_SEX:

EPI: urinary epinephrine: EPIMG * URINEVOL / CREATEXC

Where **EPIMG**: Epinephrine (ng/mL/1000) URINEVOL: Urine Volume (mL/bout) CREATEXC: Creatinine excretion (gm/bout)

Q4NOREPI_SEX: Urine norepinephrine, adjusted for urine volume and creatinine excretion

- 1: For males if NOREPI >= 30.5 For females if NOREPI >= 46.9
- 0: For males if 0 <= NOREPI <30.5 For females if 0<= NOREPI <46.9

Sub-component of Q4NOREPI_SEX:

NOREPI: urinary norepinephrine: NOREPIMG * URINEVOL / CREATEXC

Where NOREPIMG: Norepinephrine (ng/mL/1000) URINEVOL: Urine Volume (mL/bout) CREATEXC: Creatinine excretion (gm/bout)

Q1DHEASMED2: DHEAS or testosterone use

- 1: For males if 0 <= DHEAS2 <= 589.5 ng/mL or MTESTOS=1 For females, 0 <= DHEAS2 <= 368.5 or MTESTOS =1
- 0: For males if DHEAS2 >= 589.5 and MTESTOS=0 For females if DHEAS2 >= 368.5 and MTESTOS=0

Subcomponents of Q1DHEASMED2:

DHEAS2: Dheas (ng/mL) MTESTOS: Taking androgens 0=No; 1=Yes

ALLOLOADCRPCLINICALMED:

Score ranging from 0-11, where 0 is best and 11 is worst. This score is calculated the same way as ALLOLOADCLINICALMED, with an additional point added if CRP > 3.

It is the sum of ALLOLOADCLINICALMED + Q4CRP2.

Components of ALLOLOADCRPCLINICALMED:

ALLOLOADCLINICALMED:

The subcomponents for ALLOLOADCLINICALMED have been defined above.

Q4CRP2:

This is an indicator variable that categorizes subjects based on the C-reactive threshold. 1: if CRP >3 0: if 0<=CRP <=3 Where CRP is C - reactive protein (ng/mL) Boston Puerto Rican Health Study Wave 1 (Baseline) Codebook

LAB VARIABLES

BLOOD

Note: _SI unit conversions from JAMA 2000, unless otherwise noted.

HEMANALYZ: hematology analyzed on new machine NEED TO ADJUST BLOOD VARS
0: old machine
1: new machine
Variables affected: HGB, HCT, MCV, RDW, WBC, PLATCOUNT

HCLTREAT: epinephrine and norepinephrine samples treated with HCL 0: no 1: yes

INSULIN: serum insulin (uIU/mL)

INSULIN_SI: INSULIN*6.945 (pmol/L)

CARO: serum carotene (ug/dl)

CARO_SI: CARO*0.0186 (µmol/L)

DHEAS: serum DHEA-S04 (ug/dl)

DHEAS_SI: DHEAS*0.026 (umol/L)

GLYHGB: glycosolated hemoglobin (%)

GLYHGB_SI: proportion of total hemoglobin (GLYHGB*0.01)

MMA: serum methylmalonic acid (pmol/mL)

VITB6: plasma vitamin B6 (nm/L)

VITB12: serum vitamin B12 (pg/mL)

VITB12_SI: VITB12*0.738 (pmol/L)

VITC: plasma vitamin C (HPLC, mg/dL)

VITC_SI: VITC*56.78 (µmol/L)

VITD: plasma vitamin D (ng/mL)

FOLATE: serum folate (ng/mL)

FOLATE_SI: FOLATE*2.2666 (nmol/L)

ALB: serum albumin (g/dL)

ALB_SI: ALB*10 (g/L)

CRP: serum high sensitivity c-reactive protein (mg/L)

BUN: serum blood urea nitrogen (mg/dL)

CREAT: serum creatinine (mg/dL)

CREAT_SI: CREAT*76.26 (µmol/L)

GLUC: serum glucose (mg/dL)

GLUC_SI: GLUC*0.0555 (mmol/L)

CHOL: plasma cholesterol (mg/dL)

CHOL_SI: CHOL*0.0259 (mmol/L)

TRIG: plasma triglyceride (mg/dL)

TRIG_SI: TRIG*0.0113 (mmol/L)

HDL: plasma high density lipoprotein [HDL cholesterol] (mg/dL)

HDL_SI: HDL*0.0259 (mmol/L)

LDL: plasma low density lipoprotein [LDL cholesterol] (mg/dL)

LDL_SI: LDL*0.0259 (mmol/L)

VLDL: plasma very low density lipoprotein (mg/dL)

HCY: plasma homocysteine (µmol/L)

HCY_SI: HCY/7.397 (µmol/L)

OH8DG_ADJCREAT: 8-OHdG (8-hydroxy-deoxyguanosine), adjusted for creatinine (ng/ug of creatinine)

CBC Differential:

WBC_ADJ: WBC values calibrated to new machine via regression (1000/uL) if HEMANALYZ=0 then WBC_ADJ=-0.32383 + 0.97330*WBC; Boston Puerto Rican Health Study Wave 1 (Baseline) Codebook

else if HEMANALYZ=1 then WBC_ADJ=WBC;

WBC: white blood cell count (1000/uL) DO NOT USE—USE WBC_ADJ

NEUTRO: neutrophils (segs) (%)

BANDS: premature neutrophils (%)

LYMPHS: lymphocytes (%)

MONO: monocytes (%)

EO: eosinophils (%)

BASO: basophils (%)

Red blood cell morphology:

RBC: red blood cell volume (mil/uL)

RBC_SI: RBC (x10¹²/L)

ANISO: anisocytosis (normal)

POLYCHROM: polychromia (normal)

HYPOCHROM: hypochromia (normal)

HCT_ADJ: hematocrit values calibrated to new machine via regression
Per Dan Weiner (nephrologist): it is preferable to use HGB_ADJ over HCT_ADJ as hemoglobin is historically more stable if hemanalyz=0 then hct_adj=-3.63435+ 1.17788*hct; else if hemanalyz=1 then hct_adj=hct;

HCT: hematocrit (%) DO NOT USE—USE HCT_ADJ

HGB_ADJ: hemoglobin values calibrated to new machine via regression if HEMANALYZ=0 then HGB_ADJ=-0.34174 + 1.08911*HGB; else if HEMANALYZ=1 then HGB_ADJ=HGB;

HGB: hemoglobin (g/dL) DO NOT USE-USE HGB_ADJ

MCV_ADJ: MCV values calibrated to new machine via regression if HEMANALYZ=0 then MCV_ADJ=-4.89165 + 1.09230*MCV; else if HEMANALYZ=1 then MCV_ADJ=MCV;

MCV: mean corpuscular volume (um3) DO NOT USE-USE MCV ADJ

POIKILO: poikilocytes (normal)

PLATEST: estimated platelet number (normal)

PLATCOUNT_ADJ: platelet count values calibrated to new machine via regression if HEMANALYZ=0 then PLATCOUNT_ADJ=-1.40686 + 0.89373*PLATCOUNT; else if HEMANALYZ=1 then PLATCOUNT_ADJ=PLATCOUNT;

PLATCOUNT: (thou/uL) DO NOT USE—USE PLATCOUNT_ADJ

MCH: mean corpuscular hemoglobin (pg)

MCHC: mean corpuscular hemoglobin concentration (g/dL)

RDW: red cell distribution width DO NOT USE—CALIBRATION CANNOT BE CALCULATED

NELID_B: HNRC ID for blood specimen

BLOOD_DT: date of collection of blood specimen

URINE – 12 HOUR COLLECTION

CREATCONC: urine creatinine concentration (mg/dl)

CREATCONC_C: comments for CREATCONC

CREATEXC: creatinine excretion (gm/bout)

CREATEXC_C: comments for CREATEXC

URINEVOL: urine volume (ml)

URINEVOL_C: comments for URINEVOL

CORTMG: urinary cortisol (mg) DO NOT USE- SEE DERIVED VARIABLE BELOW

EPIMG: urine epinephrine (ng/mL/1000) **DO NOT USE- SEE DERIVED VARIABLE BELOW** *Note: please adjust for HCLTREAT*

NOREPIMG: urine norepinephrine (ng/mL/1000) DO NOT USE- SEE DERIVED VARIABLE BELOW Note: please adjust for HCLTREAT

NELID_U: HNRC ID for urine specimen

SALIVA

SALCORT AM: salivary cortisol from morning draw (ug/dL)

SALCORT PM: salivary cortisol from evening draw (ug/dL)

SALIVAAM: time saliva collected in the morning

SALIVAPM: time saliva collected in the evening

NELID S: HNRC ID for saliva specimen

DERIVED LAB VARIABLES

CORT

(CORTMG * URINEVOL / CREATEXC) / 2.3

NOREPI (ug/g)

NOREPIMG * URINEVOL / CREATEXC *Note: please adjust for HCLTREAT*

NOREPIZZ

1: NOREPI>=48 0: 0<=NOREPI<48

EPI (ug/g)

EPIMG * URINEVOL / CREATEXC *Note: please adjust for HCLTREAT*

EPIZZ

1: EPI>=5 0: 0<=EPI<5

DHEAS2

DHEAS *10;**converting it to ng/mL;

VITB6ZZ (Haller et al 1991, Driskell 1994, Leklem 1999)

- 0: VITB6 >= 30
- 1: 20 <= VITB6 < 30
- 2: VITB6 < 20

VITB6ZZ2

0: VITB6 >= 301: VITB6 < 30

VITB12ZZ (Tucker et al 2000)

- 0: VITB12 >= 350 or (200 <= VITB12 < 350 and 0 <= MMA <= 370) 1: VITB12 < 200 or (200 <= VITB12 < 350 and MMA > 370)

```
FOLATEZZ (Selhub and Rosenberg 1996)
      0: FOLATE > 5
      1: FOLATE \leq 5
GLYHGBZZ (ADA 2008)
      0: GLYHGB < 7
      1: GLYHGB \geq 7
GLYHGBZZ2 (ADA 2008)
      0: GLYHGB < 6
      1: GLYHGB \geq 6
HGBZZ (WHO 1994)
      0: Male: HGB ADJ >= 13
        Female: HGB ADJ >= 12
      1: Male: HGB ADJ < 13
        Female: HGB ADJ < 12
HCTZZ (WHO 1994)
      0: Male: HCT ADJ \ge 40
        Female: HCT ADJ >= 37
      1: Male: HCT ADJ < 40
        Female: HCT ADJ < 37
HDLZZ (Expert Panel on Detection 2002)
      0: 0 <= HDL <40
      1: 40 <= HDL <= 59
      2: HDL >= 60
HCYZZ (NHANES 95th percentiles)
      0: Male: HCY < 11.4
        Female: HCY < 10.4
      1: Male: HCY \ge 11.4
        Female: HCY \ge 10.4
INSULINZZ (Stern et al. 2005)
      0: INSULIN < 20.7
      1: INSULIN >= 20.7
LDLZZ (Expert Panel on Detection 2002)
      0: 0 \le LDL \le 100
      1: 100 <= LDL <= 129
      2: 130 <= LDL <= 159
      3: 160 <= LDL <= 189
      4: LDL >= 190
CHOL HDL
      =CHOL/HDL;
```

CHOLCAT 1 = CHOL < 2002 = 200 <=CHOL <=239 3 = CHOL >= 240**TRIGZZ** (Expert Panel on Detection 2002) 0: $0 \le TRIG \le 150$ 1: 150 <= TRIG <= 199 2: TRIG >= 200 ALBZZ (Visser et al. 2005) 1: ALB < 3.8 0: Male: 3.8 <= ALB <= 5.4 Female: 3.8 <= ALB <= 5.3 **GLUCZZ** (ADA 2006) 0: GLUC < 100 1: 100 <= GLUC <= 125 2: GLUC >= 126 **GLUCZZ2** (ADA 2006) 0: GLUC < 126 1: GLUC >= 126 **HYBPZZ** (Chobanian et al. 2003): Hypertension Stages 0: SYSBP <120 and DIASBP < 80, Normal 1: $120 \le SYSBP \le 139$ or $80 \le DIASBP \le 89$, Prehypertension 2: 140 <= SYSBP <=159 or 90 <= DIASBP <=99, Stage 1 hypertension 3: SYSBP >=160 or DIASBP >= 100, Stage 2 hypertension CAROZZ (Semba et al. 2006) 0: CARO > 56 1: CARO <= 56 **CHOLZZ** (Expert Panel on Detection 2002) 0: 0 <= CHOL < 200 1: 200 <= CHOL <= 239 2: CHOL >= 240 **CRPZZ** *CRP (Pearson et al 2003); 0: $0 \le CRP \le 1$ 1: $1 \le CRP \le 3$ 2: 3 < CRP < 10

3: 10 <= CRP

CRPZZ2 *CRP (NHANES 1999-2000)

0: Male: (AGE > 59 and CRP < 4.9) or $(AGE \le 59 \text{ and } CRP < 4.6)$

Female: (AGE > 59 and CRP < 7.3) or (AGE <= 59 and CRP < 8.4) 1: Male: (AGE > 59 and CRP >= 4.9) or (AGE <= 59 and CRP >= 4.6) Female: (AGE > 59 and CRP >= 7.3) or (AGE <= 59 and CRP >= 8.4)

CREATZZ (Shlipak et al. 2002)

- 0: Male: 0 <= CREAT < 1.5 Female: 0 <= CREAT < 1.3
- 1: Male: CREAT >= 1.5 Female: CREAT >= 1.3

CREAT_IDMS = -0.03339 + (1.01127 * CREAT)

CREATZZ_IDMS

- 0: Male: 0 <= CREAT_IDMS < 1.5 Female: 0 <= CREAT_IDMS < 1.3
- 1: Male: CREAT_IDMS >= 1.5 Female: CREAT_IDMS >= 1.3

MDRD_IDMS

175 * (CREAT_IDMS**-1.154)*(AGE**.203)*(0.742**FEMALE)*(1.212**AFAMER)

NOTE: AFAMER: adjusts for African American descent, equals zero in this population

COCKGAULT_IDMS = (0.85**FEMALE)*(140-AGE)*WT_KG/(CREAT_IDMS*72)

DHEASZZ (Wisconsin Study)

- 0: Male: DHEAS >= 60.5 Female: DHEAS >= 33.0
- 1: Male: 0 <= DHEAS < 60.5 Female: 0 <= DHEAS < 33.0

DHEASZZ2 (Trivedi and Khaw 2001)

- 0: Male: DHEAS >= 58.95 Female: DHEAS >= 36.85
- 1: Male: 0 <= DHEAS < 58.95 Female: 0 <= DHEAS < 36.85
- $HOMA_IR = (INSULIN * GLUC_SI) / 22.5$ GLUC_SI = GLUC * 0.055

MEDICATIONS

PRESCRIPTION MEDICATIONS (PMED)

INTERVIEWER: List all prescription medications participant is currently taking or has taken within the past year, including insulin.

CO-INFORMANT: YESNO		PROXMEDS
Medication Name		How long using? Codes: 1. Less than 1 year (<1yr) 2. Between 1 and 5 years (1-5yrs) 3. More than 5 years (>5yrs)
1.	PMED1	PMED1B
2.	PMED2	PMED2B
3.	PMED3	PMED3B
4.	PMED4	PMED4B
5.	PMED5	PMED5B
6.	PMED6	PMED6B
7.	PMED7	PMED7B
8.	PMED8	PMED8B
9.	PMED9	PMED9B
10.	PMED10	PMED10B
11.	PMED11	PMED11B
12.	PMED12	PMED12B
13.	PMED13	PMED13B
14.	PMED14	PMED14B
15.	PMED15	PMED15B
16.	PMED16	PMED16B
17.	PMED17	PMED17B
18.	PMED18	PMED18B
19.	PMED19	PMED19B
20.	PMED20	PMED20B
21.	PMED21	PMED21B
22.	PMED22	PMED22B
23.	PMED23	PMED23B
24.	PMED24	PMED24B
25.	PMED25	PMED25B

OVER-THE-COUNTER MEDICATIONS (OCMED)

INTERVIEWER: List all over-the-counter medications Subject takes on a weekly basis.

Medication Name	
1.	OCMED1
2.	OCMED2
3.	OCMED3
4.	OCMED4
5.	OCMED5
6.	OCMED6
7.	OCMED7
8.	OCMED8
9.	OCMED9
10.	OCMED10
11.	OCMED11
12.	OCMED12
13.	OCMED13
14.	OCMED14
15.	OCMED15
16.	OCMED16
17.	OCMED17
18.	OCMED18
19.	OCMED19
20.	OCMED20
21.	OCMED21
22.	OCMED22
23.	OCMED23
24.	OCMED24
25.	OCMED25

DERIVED MEDICATION VARIABLES

High-Level Medication Variables

- A. MALLMEDS: count of all meds including vitamins = MCA + MANS_C+ MBLOD_C+ MCARDIO_C+ MCOX2 + MASA+ MNSAID+ MOPI+ MACETO+MANTIC_C + MPSY_C
 +MSTIM_C+ MANX_C+ MLITH + MMIGRAINE + MMISPSY + MELH2O_C + MANTITU + MENT_C + MGI_C + MHORM_C + MANTIBIOT_C + MANTIV_C + MSKIN_C + MSKMUS+ MVIT_C + MMISC_C + MANTHIS + MHERBAL
- B. MALLNOVIT: all medications, no vitamins= MCA + MANS_C+ MBLOD_C+ MCARDIO_C+ MCOX2 + MASA+ MNSAID + MOPI + MACETO + MANTIC_C + MPSY_C + MSTIM_C+ MANX_C+ MLITH + MMIGRAINE + MMISPSY + MELH2O_C + MANTITU + MENT_C + MGI_C + MHORM_C + MANTIBIOT_C + MANTIV_C + MSKIN_C + MSKMUS+ MMISC_C + MANTHIS + MHERBAL
- C. **MORAL**: count of all "ORAL" meds. This excludes vitamins and topical preparations for skin and eyes. (They are included above) = MCA + MANS_C + MBLOD_C+ MCARDIO_C+

MCOX2 + MASA+ MNSAID + MOPI + MACETO + MANTIC_C + MPSY_C + MSTIM_C + MANX_C + MLITH + MMIGRAINE + MMISPSY + MELH2O_C + MANTITU + MGI_C + MHORM_C + MANTIBIOT_C + MANTIV_C + MSKMUS+ MMISC_C + MHERBAL

CNS

A. CoxII -- count all with code 28.08.04.08 (only)

MCOX2: taking one or more of these medications 0=No 1=Yes

B. ASA – count all with code 28.08.04.24 (only)

No count variable because subject can only be taking 1 of these medications

MASA: taking this medication

0=No 1=Yes

C. NSAIDS other – count all with code 28.08.04.92(only)

MNSAID: taking this medication

0=No 1=Yes

D. Opiates – count all with code 28.08.08 or 28.08.12

MOPI: taking this medication 0=No

1=Yes

E. Acetaminophen - count all with code 28.08.92 (only)

No count variable because subject can only be taking 1 of these medications **MACETO**: taking this medication

0=No

F. Anticonvulsants - count all with prefix 28.12.

28.12.04 or 28.12.12 or 28.12.92 MANTIC_C: count of these medications MANTIC: taking this medication 0=No 1=Yes

G. New Anticonvulsants – count all with code 28.12.92

MANTIN: taking this medication 0=No 1=Yes

H. Psychotherapeutic agents – count all with prefix 28.16.

28.16.04.12 or 28.16.04.20 or 28.16.04.24 or 28.16.04.28 or 28.16.04.92 or 28.16.08.04 or 28.16.08.08 or 28.16.08.24 or 28.16.08.32 or 28.16.08.92 or 28.16.08

MPSY_C: count of these medications MPSY: taking this medication 0=No 1=Yes

I. Antidepressants – count all that have prefix 28.16.04.

28.16.04.12 or 28.16.04.20 or 28.16.04.24 or 28.16.04.28 or 28.16.04.92 MANTDEP_C: count of these medications MANTDEP_D: duration taking these medications MANTDEP: taking this medication 0=No 1=Yes

1. SSRIs - count of all 28.16.04.20 (only)

MSSRI_D: duration taking this medication MSSRI: taking this medication 0=No 1=Yes

2. MAOIs - count all with code 28.16.04.12 (only)

No count variable because subject can only be taking 1 of these medications **MMAOI_D**: duration taking this medication **MMAOI:** taking this medication 0=No 1=Yes

3. TCAs – count all with code 28.16.04.28 (only)

MTCA_D: duration taking this medication

MTCA: taking this medication 0=No 1=Yes

4. Trazodone - count all with code 28.16.04.24 (only)

No count variable because subject can only be taking 1 of these medications MTRAZ_D: duration taking this medication MTRAZ: taking this medication 0=No 1=Yes

5. MiscAD – count all with 28.16.04.92 (only)

MMISCAD_D: duration taking this medication MMISCAD: taking this medication 0=No 1=Yes

J. Antipsychotics – count all with prefix 28.16.08.

28.16.08.04 or 28.16.08.08 or 28.16.08.24 or 28.16.08.32 or 28.16.08.92 or 28.16.08 MANTPSY_C: count of these medications MANTPSY: taking this medication 0=No 1=Yes

1. AtypicalA - count all with 28.16.08.04 (only) or 28.16.08

MATYPA: taking this medication 0=No 1=Yes

2. Other Anti-psychotics:

28.16.08.08 or 28.16.08.24 or 28.16.08.32 or 28.16.08.92 **MOANTIPSY_C**: count of these medications **MOANTIPSY**: taking this medication 0=No 1=Yes

K. Stimulants -- count all with prefix 28.20

28.20.04 or 28.20.92 MSTIM_C: count of these medications MSTIM: taking this medication 0=No 1=Yes

1. Ritalin – count all with 28.20.92 (only)

MRIT: taking this medication 0=No 1=Yes

L. Anxiolytics – count all that have prefix 28.24.

28.24.08 or 28.24.92 MANX_C: count of these medications MANX_D: duration taking these medications MANX: taking this medication 0=No 1=Yes

1. Benzos – count all with prefix 28.24.08 (only)

MBENZ_D: duration taking this medication MBENZ: taking this medication 0=No 1=Yes

2. Miscellaneous sedative hypnotics -count all with code 28.24.92 (only)

MMSEDHYP_D: duration taking this medication MMSEDHYP: taking this medication 0=No 1=Yes

M. Lithium – count all with code 28.28 (only)

No count variable because subject can only be taking 1 of these medications MLITH: taking this medication 0=No

1=Yes

N. Antimigraine agents - count all with code 28.32 (only) or 28.32.28

MMIGRAINE: taking this medication

0=No 1=Yes

O. MiscPsych – count all with code 28.92 (only)

MMISPSY: taking this medication 0=No

1=Yes

Antihistamines - count of all with prefix 4 (Used this count in total above)

4.04 or 4.08 or 4.92 MANTHIS: taking this medication 0=No 1=Yes

Anticancer – count of all with prefix 10 (Used this count in total above)

10.00 MCA: taking this medication 0=No 1=Yes

Autonomic Nervous – count of all with prefix 12. (Used this count in total above)

12.04 or 12.08.04 or 12.08.08 or 12.12.01 or 12.12.02 or 12.12.03 or 12.20 or 12.12 or 12.92 MANS_C: count of these medications MANS: taking this medication 0=No 1=Yes

A. Cholinergic – count all with prefix 12.04 (only)

MCHOL: taking this medication

0=No 1=Yes

B. Anticholinergic – count all with prefix 12.08.

12.08.04 or 12.08.08 MANTICH_C: count of these medications MANTICH: taking this medication 0=No 1=Yes

C. Anti-parkinson – count 12.08.04 (only)

MPARK: taking this medication

0=No 1=Yes

1 = Y es

D. Adrenergic – count of all with prefix 12.12.

12.12.01 or 12.12.02 or 12.12.03 or 12.12 or 12.92 MADREN_C: count of these medications MADREN: taking this medication 0=No 1=Yes

1. AdInhalers – count of all 12.12.01 (only)

MADIN: taking this medication 0=No

1=Yes

2. AdOral – count of all with 12.12.02 and 12.12.03 (only those two complete codes)

MADOR: taking this medication

0=No 1=Yes

Skeletal Muscle relaxants - count all with code 12.20

MRELAX: taking this medication 0=No 1=Yes

Blood Formation and Coagulation – count all those with prefix 20. (Used this count in total above)

20.04.04 or 20.12.04.08 or 20.12.04.16 or 20.12.18 or 20.12.04.92 or 20.16 or 20.24 **MBLOD_C**: count of these medications **MBLOD**: taking this medication 0=No 1=Yes

A. Iron – count 20.04.04 (only)

No count variable because subject can only be taking 1 of these medications **MIRON**: taking this medication

0=No 1=Yes

B. Anticoagulants – count all with prefix 20.12.04.

or 20.12.04.16 or 20.12.04.92 MANTICO_C: count of these medications MANTICO: taking this medication 0=No 1=Yes C. Warfarin – count with 20.12.04.08 (only)

MWARFARIN: taking this medication

0=No 1=Yes

D. Platelet Aggregation Inhibitors – count all with code 20.12.18 (only)

MPLAGGINH: taking this medication

0=No 1=Yes

E. Hematopoeitic – count all with code 20.16 (only)

MHEMAT: taking this medication

0=No 1=Yes

F. Trental – count all with code 20.24 (only)

No count variable because subject can only be taking 1 of these medications **MTRENT**: taking this medication

0=No 1=Yes

Cardiovascular agents- count all with prefix 24. (Used this count in total above)

24.04.04 or 24.04.08 or 24.06.04 or 24.06.06 or 24.06.08 or

24.06.92 or 24.08.16 or 24.08.20 or 24.12.08 or 24.12.12 or 24.12.92

or 24.20 or 24.24 or 24.28.08 or 24.28.92 or 24.32.04 or 24.32.08 or 24.32.20

MCARDIO_C: count of these medications

MCARDIO_D: duration taking these medications

MCARDIO: taking this medication

0=No

1=Yes

A. Digoxin – count all with code 24.04.08 (only)

No count variable because subject can only be taking 1 of these medications **MDIG_D**: duration taking this medication **MDIG**: taking this medication

0=No

1=Yes

B. Antilipemic agents – count all with prefix 24.06.

24.06.04 or 24.06.06 or 24.06.08 or 24.06.92 or 24.06.92.92 MANTILIP_C: count of these medications MANTILIP_D: duration taking these medications MANTILIP: taking this medication 0=No 1=yes

1. HMG CoA – count all with code 24.06.08 (only)

MHMG_D: duration taking this medication MHMG: taking this medication 0=No 1=Yes

2. Omega – count all with code 24.06.92.92

MOMEGA3_D: duration taking these medications MOMEGA3: taking this medication 0=No 1=Yes

C. Hypotensive agents – count all with prefix 24.08

24.08.16 or 24.08.20 MHYPO_D: duration taking this medication MHYPO: taking this medication 0=No 1=Yes

D. Vasodilating agents

1. Nitrates – count all with code 24.12.08 (only) MNITR_D: duration taking this medication MNITR: taking this medication 0=No 1=Yes

2. Viagra- count all with code 24.12.12 (only) MFORMEN_D: duration taking this medication MFORMEN: taking this medication 0=No 1=Yes

3. Dypyridamole – count all with code 24.12.92 (only)

MDYPRYID_D: duration taking this medication MDYPRYID: taking this medication 0=No 1=Yes

E. Alpha blockers – count all with code 24.20 (only) MABLK_D: duration taking this medication MABLK: taking this medication

0=No 1=Yes

F. Beta Blockers – count all with code 24.24 (only)

MBBLK_D: duration taking this medication MBBLK: taking this medication 0=No 1=Yes

G. Calcium Channel Blockers – count all with prefix 24.28.

24.28.08 or 24.28.92 MCBLK_D: duration taking these medications MCBLK: taking this medication 0=No 1=Yes

H. ACE inhibitors – count all with code 24.32.04 (only)

MACEI_D: duration taking this medication MACEI: taking this medication 0=No 1=Yes

I. AngioII – count all with code 24.32.08 (only)

No count variable because subject can only be taking 1 of these medications MANGIO_D: duration taking this medication MANGIO: taking this medication 0=No

1=Yes

J. Hypertension Medications -- Count all with code in

('24.08.16', '24.08.20', '24.24', '24.28.08', '24.28.92', '24.32.04', '24.32.08', '40.28.01' or '24.32.20') HTNMED_D: duration taking these medications HTNMED: Taking hypertension medications 0=No 1=Yes

Electrolyte and Water – count all with prefix 40. (Used this count in total above)

40.10 or 40.08 or 40.12.01 or 40.12.02 or 40.18.18 or 40.18.19 or 40.28.01 or 40.28.02 or 40.28.10 or 40.40 or 40.12

MELH2O_C: count of these medications MELH2O: taking this medication 0=No 1=yes

A. Calcium salts – count all with code 40.12.01 (only)

MCATT: taking this medication 0=No 1=Yes

B. Potassium salts – count all with code 40.12.02 or 40.12 MPOT: taking this medication 0=No 1=Yes C. Phosphate removing agents – count all with code 40.18.19 (only)

MPHOSREM: taking this medication 0=No 1=Yes

D. Diuretics – count all with prefix 40.28.

40.28.01 or 40.28.02 or 40.28.10 or 40.40 **MDIUR_C**: count of these medications **MDIUR**: taking this medication 0=No1=yes

1. Thiazides – count all with code 40.28.01 (only)

MTHIAZ: taking this medication 0=No 1=Yes

2. Loop – count with code 40.28.02 (only)

MLOOP: taking this medication 0=No 1=Yes

3. K sparing – count all with code 40.28.10 (only)

MKSPAR: taking this medication

0=No 1=Yes

Antitussives – count all with 48.08 or 48.16

MANTITU: taking this medication

0=No 1=Yes

Ear, nose, and throat -- count all with prefix 52. (Used this count in total above)

52.02 or 52.04.04 or 52.04.06 or 52.08 or 52.10 or 52.20 or 52.24 or 52.36 or 52.32 or 52.08.92 MENT_C: count of these medications MENT: taking this medication 0=No 1=Yes

A. ENT anti-inflammatory – count all with code 52.08 or 52.08.92

MENTAI: taking this medication 0=No

1=Yes

B. Carbonic anhydrase inhibitors: count all with code 52.10 (only) MCAINH: taking this medication

0=No 1=Yes

C. Eye drops – count total of codes of 52.10 or 52.20 or 52.24 or 52.32 or 52.36 MEYEDRP_C: count of these medications MEYEDRP: taking this medication 0=No 1=Yes

D. Topical steroids - count with prefix 52.08

52.08 or 52.08.92 **MTOPSTER**: taking this medication 0=No 1=Yes

GI Meds - count all those with prefix 56.

56.04 or 56.08 or 56.08.01 or 56.10 or 56.12 or 56.16 or 56.22.08 or 56.22.20 or 56.22.92 or 56.28 or 56.28.32 or 56.28.36 or 56.32 or 56.36 or 56.92 or 58.10 MGI_C: count of these medications MGI: taking this medication 0=No

1=Yes

A. Cathartics – count all those with code 56.12 (only)

MCATH: taking this medication 0=No 1=Yes

B. Anti-emetics – count all those with code 56.22.08 or 56.22.92

MANTIEMET: taking this medication 0=No

1=Yes

C. Anti-ulcer – count all with prefix 56.28

56.28.12 or 56.28.32 or 56.28.36 **MULCER_C**: count of these medications **MULCER**: taking this medication 0=No 1=Yes

1. H2antagonsits - count all those with code 56.28.12 (only)

MH2ANT: taking this medication 0=No 1=Yes

2. Sulcralfate – count all those with code 56.28.32 (only) MSULC: taking this medication 0=No 1=Yes

3. PPIs - count all those with code 56.28.36 (only)

MPPI: taking this medication 0=No 1=Yes

Hormones – count all with prefix 68.

68.04 or 68.04.01 or 68.08 or 68.12 or 68.16.04 or 68.16.12 or 68.20.04 or 68.20.08 or 68.20.16 or 68.20.20 or 68.20.28 or 68.20.92 or 68.24 or 68.32 or 68.36.04 or 68.36.08 or 88.68 MHORM_C: count of these medications MHORM: taking this medication

0=No

1=Yes

A. Prednisone – count all with code 68.04.01 (only)

No count variable because subject can only be taking 1 of these medications **MPRED**: taking this medication

0=No 1=Yes

B. Estrogen – count all with code 68.16.04 (only)

MESTRO: taking this medication 0=No 1=Yes

C. Androgens – count all with code 68.08 (only)

MTESTOS: taking this medication 0=No 1=Yes

D. Raloxifene - count all with code 68.16.12 (only)

MRALOX: taking this medication 0=No 1=Yes

E. Antidiabetic agents – count all with prefix 68.20.

68.20.04 or 68.20.08 or 68.20.16 or 68.20.20 or 68.20.28 or 68.20.92 MANTIDB_C: count of these medications MANTIDB_D: duration taking these medications MANTIDB: taking this medication 0=No 1=Yes

1. Metformin – count all with code 68.20.04 (only)

No count variable because subject can only be taking 1 of these medications **MMETFORMIN_D**: duration taking these medications

MMETFORMIN: taking this medication

0=No 1=Yes

2. Insulin – count all with code 68.20.08 (only)

MINSU_D: duration taking these medications MINSU: taking this medication 0=No 1=Yes

3. Meglit – count all with code 68.20.16 (only)

No count variable because subject can only be taking 1 of these medications **MMEGL_D**: duration taking these medications **MMEGL**: taking this medication 0=No 1=Yes

4. Sulfonylureas – count all with code 68.20.20 (only)

MSULF_D: duration taking these medications

MSULF: taking this medication

0=No 1=Yes

5. Glitazones – count all with code 68.20.28 (only)

MGLIT_D: duration taking these medications MGLIT: taking this medication 0=No 1=Yes

6. Alpha glucosidase inhibitors – count all with code 68.20.92 (only)

MALFGLUC_D: duration taking these medications

MALFGLUC: taking this medication

0=No 1=Yes

F. Calcitonin – count all with code 68.24 (only)

No count variable because subject can only be taking 1 of these medications **MCALCI**: taking this medication

0=No 1=Yes

G. Thyroid replacement- count all with code 68.36.04 (only)

MTHYREP: taking this medication

0=No 1=Yes

H. Anti-thyroid -- count all with code 68.36.08 (only)

MANTTHY: taking this medication

0=No 1=Yes

Antibiotics – count all with code:

8.12 or 8.12.06 or 8.12.18 or 8.12.20 or 8.12.28.30 or 8.22 MANTIBIOT_C: count of these medications MANTIBIOT: taking this medication 0=No 1=Yes

Antifungal – count all with prefix 8.18

'8.14.08' '8.14.04' '8.14.92' MANTFUN C: count of these medications

MANTIFUN: taking this medication

0=No 1=Yes

Antiviral – count all with prefix 8.18

8.18 or 8.18.08 or 8.18.08.08 or 8.18.20 or 8.18.32 MANTIV_C: count of these medications MANTIV: taking this medication 0=No 1=Yes

Anti-HIV: count all with code:

8.18 or 8.18.08 or 8.18.08.08 MANTIHIV_C: count of these medications MANTIHIV: taking this medications 0= No 1=Yes

Skin Agents – count all with prefix 84.

84.04 or 84.04.04 or 84.04.08 or 84.04.08.08 or 84.04.12 or 84.04.16 or 84.06 or 84.08 or 84.24 or 84.32 or 84.92

MSKIN_C: count of these medications

MSKIN: taking this medication 0=No 1=Yes

Skeletal Muscle – count all with prefix 86.

86.12 or 86.16 MSKMUS: taking this medication 0=No 1=Yes

A. GU muscle – count all with code 86.12 (only) MGUMUS: taking this medication 0=No 1=Yes

B. Theophylline - count all with code 86.16 (only)

MTHEOPHYL: taking this medication

0=No 1=Yes

Vitamins – count all with prefix 88.

88.04 or 88.08 or 88.08.01 or 88.08.02 or 88.08.05 or 88.08.06 or 88.08.07 or 88.08.08 or 88.12 or 88.16 or 88.16.01 or 88.16.02 or 88.16.04 or 88.20 or 88.24 or 88.28 or 88.72 or 24.06.92.92 or 24.06.92

MVIT_C: count of these medications **MVIT**: taking this medication

0=No

1=Yes

A. Vitamin A – count all with code 88.04 or 24.06.92.92

MVITASUPP: taking this medication

0=No 1=Yes

B. Multivitamins – count all with code 88.28 (only)

MMULTV: taking this medication 0=No 1=Yes

C. Vitamin B Supplements -- count all with code in ('88.08', '88.08.01', '88.08.02', '88.08.05', '88.08.06', '88.08.07', '24.06.92', OR '88.08.08')

MVITBSUPP: taking this medication: 0=No 1= Yes

D. Vitamin B 12 - count all with code 88.08.01 (only)

MVITB12SUPP: taking this medication 0=No 1=Yes

E. Folic Acid – count all with code 88.08.02 (only)

MFOLSUPP: taking this medication 0=No 1=Yes

F. Pantothenic Acid – count all with code 88.08.05 (only) MVITPASUPP: taking this medication 0=No 1=Yes

G. Vitamin B 6 – count all with code 88.08.06 (only) MVITB6SUPP: taking this medication 0=No 1=Yes

H. Vitamin B 2 – count all with code 88.08.07 (only) MVITB2SUPP: taking this medication 0=No 1=Yes

I. Vitamin B 1 – count all with code 88.08.08 (only) MVITBISUPP: taking this medication 0=No 1=Yes

- J. Vitamin C count all with code 88.12 (only) MVITCSUPP: taking this medication 0=No 1=Yes
- K. Vitamin D count all with code:

88.16 or 88.16.01 or 88.16.02 or 24.06.92.92 **MVITDSUPP**: taking this medication 0=No 1=Yes

L. Vitamin E – count all with code 88.20 (only)

MVITESUPP: taking this medication 0=No 1=Yes

M. Vitamin K – count all with code 88.24 (only)

MVITKSUPP: taking this medication 0=No 1=Yes

N. Zinc – count all with code 88.30 (only) MZINCSUPP: taking this medication 0=No

O. Niacin – count all with code 24.06.92 (only) MNIACIN: taking this medication

> 0=No 1=Yes

¹⁼Yes

Herbals -- count all with code:

88.40 or 88.41 or 88.44 or 88.45 or 88.46 or 88.47 or 88.48 or 88.49 or 88.50 or 88.51 or 88.52 or 88.53 or 88.54 or 88.55 or 88.56 or 88.57 or 88.58 or 88.59 or 88.60 or 88.61 or 88.62 or 88.63 or 88.65 or

88.66 or 88.67 or 88.69 or 88.70 or 88.71 or 88.72 or 88.73 or 88.74 or 88.75 or 88.76 or 88.77 or 88.78 or 88.80 or 88.81 or 88.82 or 88.83 or 88.84 or 88.85 or 89.00 or 24.06.92.92 **MHERBAL:** taking this medication

0=No 1=Yes

A. Flax – count all with code 88.47 (only)

MFLAXSUPP: taking this medication 0=No 1=Yes

B. Garlic – count all with code 88.48 (only)

MGARSUPP: taking this medication

0=No 1=Yes

C. Melatonin – count all with code 88.50 (only)

MMELSUPP: taking this medication 0=No 1=Yes

D. Zeaxanthin – count all with code 88.57 (only)

MZEASUPP: taking this medication 0=No 1=Yes

E. Lutein – count all with code 88.72 (only)

MLUTSUPP: taking this medication 0=No

1=Yes

Miscellaneous – count all with prefix 92.

92.00 or 92.01 or 92.02 or 92.03 or 92.04 or 92.06 or 92.07 or 92.09 or 92.11 or 92.12 or 92.13 or 92.17 or 20.12.28

MMISC_C: count of these medications

A. Alpha reductase inhibitors for benign prostatic hypertrophy – count all with code 92.02 (only)

MBPH: taking this medication 0=No 1=Yes

B. Anti-gout – count all with code 40.40 or 92.04

Codebook Updated 9.24.24 Variables in grey font are not in the released dataset but are available upon request. **MANTIGOUT:** taking this medication

0=No 1=Yes

C. Bone resorption inhibitors –count all with code 92.07 (only)

No count variable because subject can only be taking 1 of these medications **MBONEINH**: taking this medication

0=No 1=Yes

D. Disease modifying antirheumatic drugs – count all with code 92.09 (only) MANRHEUM: taking this medication

0=No 1=Yes

E. Imusuppressive agents – count all with code 92.11 (only)

MIMUSUPPR: taking this medication

0=No 1=Yes

F. Leukotriene Modifiers– count all with code 92.12 (only) MLEUKOTRI: taking this medication 0=No

1=Yes

G. Pepto-Bismol – code 56.08.01 MPEPTO – taking this medication 0 = No1 = Yes

H. DHEA – count all with code 88.68 (only) MDHEASUPP: taking this medication 0=No 1=Yes

Respiratory Meds *For Doug Brugge, March 08;

- A. Asthma count all with code: 52.08 or 92.12 or 92.13 or 12.12.01 or 86.16 MASTHMA_D: duration taking these medications MASTHMA: taking this medication 0=No 1=Yes
- B. Asthcopd count all with code: 52.08 or 68.04 or 68.04.01 or 12.12.01 or 12.12.02 MASTHCOPD D: duration taking these medications

MASTHCOPD: taking this medication 0=No 1=Yes C. Astoth – count all with code: 52.08 or 68.04 or 4.04 or 4.08 MASTOTH_D: duration taking these medications MASTOTH: taking this medication 0=No 1=Yes

D. Cough – count all with code: 48.08 or 48.16 or 12.04 or 4.04 MCOUGH_D: duration taking these medications MCOUGH: taking this medication 0=No 1=Yes

E. Copd – count all with code: 12.08.08 or 12.12.01 MCOPD_D: duration taking these medications MCOPD: taking this medication 0=No 1=Yes

F. Nosmoke – count all with code: 12.92

MNOSMOKE_D: duration taking these medications MNOSMOKE: taking this medication 0=No 1=Yes

- G. Rhin count all with code: 28.24.92 or 12.04 MRHIN_D: duration taking these medications MRHIN: taking this medication 0=No
 - 1=Yes
- H. Decon count all with this code: 12.12.02

MDECON_D: duration taking these medications MDECON: taking this medication 0=No 1=Yes

INTERVIEWER'S OBSERVATIONS AND COMMENTS (OBS)

1. Language of Interview	1. English	OBS1
0 0	2. Spanish	
	3. Both, English and Spanish	
2. Sample Person Status	1. Normally mobile	OBS2
	2. Only seen in bed	
	3. Only seen in a wheelchair	
3. Mental Condition	1. Confused at times	OBS3
	 Cognitive deficit (retarded or demented) Not noted 	
	4. Normal	
4. Sight	A. 1. Blind	OBS4A
4. Sign	2. Visually impaired	06344
With or without glasses?	3. Not noted	
Ask if S is wearing contact lenses.		
	B. 1. With glasses/contacts	OBS4B
	2. Without glasses/contacts	
5. Hearing	A. 1. Deaf	OBS5A
C C	2. Severely hearing impaired	
	Slightly hearing impaired	
	4. Not noted	
	5. Normal	
	B. Using hearing aid?	OBS5B
	1. Yes 0. No	
6. Gait	1. Normal	OBS6
	2. Shuffling	
	3. Difficulty keeping their balance	
	4. Other:	0.000
		OBS6B
	Codes:	OBS6C
7. Other problems?	00003.	00000
	Describe; part of body:	OBS7
7a. Amputations	1. Upper body	OBS7A
•	2. Lower body	
	3. Normal	
7b. Tremor	1. Upper body	OBS7B
	2. Lower body	
	3. Normal	
7c. Deformity	1. Upper body	OBS7C
	2. Lower body	
	3. Normal	
7d. Loss of Function; can't use	1. Upper body	OBS7D
	2. Lower body	
7. 01	3. Normal	00075
7e. Other:	1. Upper body	OBS7E
	2. Lower body 3. Normal	
	J. NUITIAI	

INTERVIEWER: Please complete this section after concluding the interview.

(Observations Continued...)

8. Skin tone:		
o. Skin tone.	1. Dark	OBS8
	2. Medium	
	3. Light	
	4. White	
9. How would you rate Subject's ability to	1. Excellent	OBS9
understand English?	2. Very Good	
0	3. Good	
	4. Fair	
	5. Poor	
	6. NA: English was not spoken during the interview	
10. How would you rate the Subject's	1. Excellent	OBS10
ability to speak clearly in Spanish?	2. Very Good	
	3. Good	
	4. Fair	
	5. Poor	
	6. NA: Spanish was not spoken during the interview	
11. Type of structure in which Subject lives:		
TT. Type of structure in which Subject lives.	1. Trailer	
	2. Detached, single family house	OBS11
	3. Duplex/Two family house	OBOTT
	4. House converted to apartments	
	5. Rowhouse or townhouse with 3 or more units, 3 sto	
	6. Apartment building with 5 or more units, 3 stories or	
	7. Apartment building with 5 or more units, 4 stories or	r more
	8. Apartment in a partly commercial structure	
	9. Rooming or boarding house; structure not specified	
	97. Other	
12. Additional comments		OBS12
12. Additional comments		00012

Codebook Updated 9.24.24 Variables in grey font are not in the released dataset but are available upon request.

APPENDICES

REFERENCES

- (1993). "The fifth report of the Joint National Committee on Detection, Evaluation, and Treatment of High Blood Pressure (JNC V)." Arch Intern Med **153**(2): 154-83.
- ADA (2004). "American Diabetes Association: ." Diabetes Care 27(Supplement 1): S91-S93.
- ADA (2006). "(American Diabetes Association) Diagnosis and classification of diabetes mellitus." Diabetes Care 29 Suppl 1: S43-8.
- ADA (2008). "American Diabetes Association. Standards of medical care in diabetes--2008. Diabetes Care. 2008 Jan;31 Suppl 1:S12-54.
- Alberti, K. G., P. Zimmet, et al. (2006). "Metabolic syndrome--a new world-wide definition. A Consensus Statement from the International Diabetes Federation." Diabet Med **23**(5): 469-80.
- American Diabetes Association (2005). "Clinical Practice Recommendations." Diabetes Care 28 (Suppl.1) S1-S79.
- Bickel G, Nord M, Price C, Hamilton W, Cook J. "Guide to Measuring Household Food Security", Revised 2000. U.S. Department of Agriculture, Food and Nutrition Service, Alexandria VA. March, 2000. http://www.fns.usda.gov/sites/default/files/FSGuide.pdf
- CDC (1998). "Recommendations to prevent and control iron deficiency in the United States. Centers for Disease Control and Prevention." MMWR Recomm Rep 47(RR-3): 1-29.
- Chobanian, A. V., G. L. Bakris, et al. (2003). "The Seventh Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure: the JNC 7 report." JAMA **289**(19): 2560-72.
- Expert Panel on Detection, E., and Treatment of High Blood Cholesterol in Adults (2002). Third Report of the National Cholesterol Education Program (NCEP) Expert Panel on Detection, Evaluation, and Treatment of High Blood Cholesterol in Adults (Adult Treatment Panel III) final report. Circulation. **106:** 3143-421.
- Grundy, S. M., J. I. Cleeman, et al. (2005). "Diagnosis and management of the metabolic syndrome: an American Heart Association/National Heart, Lung, and Blood Institute Scientific Statement." Circulation **112**(17): 2735-52.
- Holleland, G., J. Schneede, et al. (1999). "Cobalamin deficiency in general practice. Assessment of the diagnostic utility and cost-benefit analysis of methylmalonic acid determination in relation to current diagnostic strategies." Clin Chem **45**(2): 189-98.
- Journal of the American Medical Association (JAMA). 2000. Système International (SI) Conversion Factors for Selected Laboratory Components. Accessed from: <u>http://www.aefa.es/wp-</u> content/uploads/2014/04/Unidades-y-factores-de-conversion-SI.pdf
- Leklem, J. E. (1999). Vitamin B6. Modern Nutrition in Health and Disease 9th edition. M. E. Shils, J. A. Olson, M. Shike and A. C. Ross. Baltimore, MD, Williams and Wilkins.
- Lindenbaum, J., I. H. Rosenberg, et al. (1994). "Prevalence of cobalamin deficiency in the Framingham elderly population." Am J Clin Nutr **60**(1): 2-11.
- Moyad, M. A. (2004). "Fad diets and obesity--Part I: Measuring weight in a clinical setting." Urol Nurs 24(2): 114-9.
- Myers, G. L., N. Rifai, et al. (2004). "CDC/AHA Workshop on Markers of Inflammation and Cardiovascular Disease: Application to Clinical and Public Health Practice: report from the laboratory science discussion group." Circulation **110**(25): e545-9.
- National Institutes of Health (1997). The Sixth Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure. NIH Publication NO. 98-4080 November 1997. Bethesda, MD, U.S. National Institutes of Health
- National Institutes of Health (1998). "Clinical Guidelines on the Identification, Evaluation, and Treatment of Overweight and Obesity in Adults--The Evidence Report " Obes Res 6 Suppl 2: 51S-209S.
- National Institutes of Health (2000). The Practical Guide to the Identification, Evaluation and Treatment of Overweight and Obesity in Adults. Bethesda, MD, U.S. National Institutes of Health
- Pfeiffer, C. M., S. P. Caudill, et al. (2005). "Biochemical indicators of B vitamin status in the US population after

Codebook Updated 9.24.24

folic acid fortification: results from the National Health and Nutrition Examination Survey 1999-2000." Am J Clin Nutr **82**(2): 442-50.

- Rasmussen, K., J. Moller, et al. (1990). "Methylmalonic acid concentrations in serum of normal subjects: biological variability and effect of oral L-isoleucine loads before and after intramuscular administration of cobalamin." Clin Chem **36**(7): 1295-9.
- Selhub, J. and I. H. Rosenberg (1996). Folic Acid. Present Knowledge in Nutrition 7th edition. E. E. Ziegler and L. J. Filer Jr. Washington, DC, ILSI Press.
- Tucker, K. L., S. Rich, et al. (2000). "Plasma vitamin B-12 concentrations relate to intake source in the Framingham Offspring study." Am J Clin Nutr **71**(2): 514-22.
- Tucker, K. L., Bermudez O.I., Castaneda, C. (2000). "Type 2 diabetes is prevalent and poorly controlled among Hispanic elders of Caribbean origin." Am J Public Health. 2000 Aug;90(8):1288-93.
- Ubbink, J. B. (2001). What is a desirable homocysteine level? . Homocysteine in health and disease. R. Carmel and D. W. Jacobsen. New York, Cambridge University Press: 485-490.
- van Meurs, J. B., R. A. Dhonukshe-Rutten, et al. (2004). "Homocysteine levels and the risk of osteoporotic fracture." N Engl J Med **350**(20): 2033-41.
- Visser, M., S. B. Kritchevsky, et al. (2005). "Lower serum albumin concentration and change in muscle mass: the Health, Aging and Body Composition Study." Am J Clin Nutr **82**(3): 531-7.
- Weir, D. G. and J. M. Scott (1999). Vitamin B12 "Cobalamin". Modern Nutrition in Health and Disease 9th edition.M. E. Shils, J. A. Olson, M. Shike and A. C. Ross. Baltimore, MD, Williams and Wilkins.
- Willett, W. C., W. H. Dietz, et al. (1999). "Guidelines for healthy weight." N Engl J Med 341(6): 427-34.
- World Health Organization (1968). Nutritional Anaemias. Report of a WHO Scientific Group Geneva, Switzerland, World Health Organization

ALLOSTATIC LOAD CUTOFFS TABLE

MEASURE	MacArthur	Wisconsin	AL data	AL data, sex specific	Clinical
	ALLOLOAD	ALLOLOAD_SEX	ALLOLOAD_Q	ALLOLOAD_QSEX	ALLOLOADCLI NICAL
Systolic BP	≥ 148	$M: \ge 148.5$ $F: \ge 144$	≥ 146.3	$ \begin{array}{l} M: \geq 148.3 \\ F: \geq 145.8 \end{array} $	>140
Diastolic BP	≥83	M: ≥ 87.5 F: ≥ 80	≥ 87.8	M: ≥ 89.0 F: ≥ 86.8	>90
Waist/hip ratio	≥0.94	M: ≥ 0.97 F: ≥ 0.86	≥ 0.99	$M: \ge 1.01$ $F: \ge 0.96$	
Waist circumference					M: >102 F: >88
Chol/HDL ratio	≥ 5.9	$\begin{array}{l} M: \geq 5.6 \\ F: \geq 4.8 \end{array}$	≥4.9	$M: \ge 5.2$ $F: \ge 4.8$	
Chol					≥240
HDL	≤ 37	M: ≤ 36 F: ≤ 45	≤ 36	M: ≤ 32 F: ≤ 39	<40
Glycos. HGB (%)	≥ 7.1	$\begin{array}{l} M: \geq 6.0\\ F: \geq 6.0 \end{array}$	≥ 7.6	$M: \ge 7.4$ $F: \ge 7.7$	>7.0
Cortisol**	≥ 25.7	M: ≥ 41.5 F: ≥ 49.5	≥ 38.6	$M: \ge 41.1$ F: ≥ 37.4	M: ≥ 41.5 F: ≥ 49.5
Norepi**	≥48	$M: \ge 30.5$ $F: \ge 46.9$	≥ 48.5	M: ≥ 42.6 F: ≥ 50.5	$M: \ge 30.5$ $F: \ge 46.9$
Epi**	≥ 5	$M: \ge 2.8$ F: ≥ 3.6	≥ 4.9	$M: \ge 5.3$ $F: \ge 4.7$	$\begin{array}{l} M:\geq 2.8\\ F:\geq 3.6 \end{array}$
DHEAS (ng/mL)	≤ 350	$M: \le 605$ F: ≤ 330	≤ 370	M: ≤ 570 F: ≤ 330	M: ≤589.5 F: ≤368.5
CRP	≥4.6	$M: \ge 4.9$ $F: \ge 7.3$	≥7.6	$M: \ge 4.9$ $F: \ge 8.5$	>3

POVERTY GUIDELINES

Poverty Guidelines 2004-2009

	20	04	20	05	20	06	20	07	20	08	20	09
Size of Family Unit	Guideline	120% Guideline										
One person	9,310	11,172	9,570	11,484	9,800	11,760	10,210	12,252	10,400	12,480	10,830	12,996
Two persons Three	12,490	14,988	12,830	15,396	13,200	15,840	13,690	16,428	14,000	16,800	14,570	17,484
persons Four	15,670	18,804	16,090	19,308	16,600	19,920	17,170	20,604	17,600	21,120	18,310	21,972
persons Five	18,850	22,620	19,350	23,220	20,000	24,000	20,650	24,780	21,200	25,440	22,050	26,460
persons Six	22,030	26,436	22,610	27,132	23,400	28,080	24,130	28,956	24,800	29,760	25,790	30,948
persons Seven	25,210	30,252	25,870	31,044	26,800	32,160	27,610	33,132	28,400	34,080	29,530	35,436
persons Eight	28,390	34,068	29,130	34,956	30,200	36,240	31,090	37,308	32,000	38,400	33,270	39,924
persons Each additional	31,570	37,884	32,390	38,868	33,600	40,320	34,570	41,484	35,600	42,720	37,010	44,412
person	3,180	3,816	3,260	3,912	3,400	4,080	3,480	4,176	3,600	4,320	3,740	4,488

Guidelines from US Department of Health and Human Services:

Thresholds from US Census Bureau:

https://www.census.gov/data/tables/time-series/demo/income-poverty/historicalpoverty-thresholds.html

http://aspe.hhs.gov/poverty/figures-fed-reg.shtml

Note: Guidelines calculated based on previous years thresholds.

For example, 2007 poverty guidelines are based upon 2006 poverty thresholds. http://aspe.hhs.gov/poverty/07computations.shtml

NEUROPSYCHOLOGICAL EXAMS

The following 21 (7 tests) contain a battery of Neuropsychological testing. Be sure to carefully follow the instructions during the administration of each test. In addition, if a proxy is involved in the interview they should not be present during the testing. The testing should be administered in a quiet area to assure participant concentration.

Neuropsychological Battery in English Word List Learning

Instrument developed by L. Artiola y Fortuny, PhD © 1999 as a part of the "California Verbal Learning Test" from D. Delis y Cols. Copyright 1993.

LIST A

First Try: "I am going to read from a list of words. Please listen attentively. Once I have finished I would like for you to repeat the list as best as you can. The order in which you repeat the words does not matter. The most important thing is that you remember as many as you can. Are you ready?"

Second Try: "I am going to repeat the list of words. Once again, I would like for you to repeat as many words as you can in whatever order. Please remember to repeat the words you already said the first time." **Third Try**: "I am going to repeat once again the same list of words. Once again, I would like for you to repeat all the words that you can in whatever order, including the ones you have said before."

2.	grandfather	5. hippopotamus	9. couch	13. dresser
3.	giraffe	6. sofa	10. zebra	14. panther
4.	leg	7. eye	11. uncle	15. cousin
5.	bed	8. mother	12. hand	16. nose

LIST A	1st Attempt	2nd Attempt	3rd Attempt	4th Attempt	5th Attempt
1. bed					
2. couch					
3. cousin					
4. dresser					
5. eye					
6. giraffe					
7. grandfather					
8. hand					
9. hippopotamus					
10. leg					
11. mother					
12. nose					
13. panther					
14. sofa					
15. uncle					

16. zebra					
17.					
18.					
19.					
20.					
CORRECT	LIS1	LIS2	LIS3	LIS4	LIS5

LIST B.

Instructions: "Now I am going to read a totally different list. Pay attention and repeat it in the order in which you please."

10. bear 11. dress
11 drass
11. ui css
12. trumpet
13. rhinoceros
14. coat
15. ear
16. drum

LIST B	
1. bear	
2. coat	
3. dress	
4. drum	
5. ear	
6. elephant	
7. finger	
8. foot	
9. head	
10. leopard	
11. piano	
12. rhinoceros	
13. skirt	
14. shirt	

Codebook Updated 9.24.24 Variables in grey font are not in the released dataset but are available upon request.

15. trumpet	
16. violin	
17.	
18.	
19.	
20.	
CORRECT	LISB

SHORT TERM RECALL

Instructions:

"Now I would like you to repeat the words from the first list that I read 5 times"

SHORT TERM RECALL
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.
15.
16.
17.
18.
19.
20.
CORRECT _LISCPLIB

SHORT TERM RECALL FACILITATED BY CLUES

Instructions:

"Please tell me all of the words from the first list that I read you that include animals, family members, etc."

SHORT TERM RECALL FACILITATED BY CLUES
1. ANIMALS
2.
3.
4.
5.
6. FAMILY MEMBERS
7.
8.
9.
10.
11. FURNITURE
12.
13.
14.
15.
16. BODY PARTS
17.
18.
19.
20.
CORRECTLISCPPIST

STOP TIME ____: ___

LONG TERM RECALL

20 minutes after Short Term Recall Facilitated by Clues

LONG TERM RECALL FACILITATED BY CLUES

START TIME: ____: ___

Instructions:

"A little while ago I read you a list of words. I would like you to repeat all the words from the first list, the one I read five times. Please begin."

LONG TERM RECALL
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.
13.
14.
15.
16.
17.
18.
19.
20.

Codebook Updated 9.24.24 Variables in grey font are not in the released dataset but are available upon request. 114

Instructions:

"Please tell me all of the words from the first list that are family members, etc."

CORRECT	_LISLPLIB
---------	-----------

LONG TERM RECALL FACILITATED BY CLUES
1. FAMILY MEMBERS
2.
3.
4.
5.
6. BODY PARTS
7.
8.
9.
10.
11. ANIMALS
12.
13.
14.
15.
16. FURNITURE
17.
18.
19.
20.
CORRECT LISLPPIST

RECOGNITION

Instructions:

"Now let's try this in a different way. I am going to read a list of words. After each word, I would like for you to indicate whether that word was included in the first list or not."

Interviewer: Mark the correct responses in the space provided to the right of the word. Do not mark any incorrect responses.

	Items	Yes
1	piano	
2	ear	
3	violin	
4	soap	
5	word	
6	father	
7	dresser	
8	tree	
9	cousin	
10	eye	
11	giraffe	
12	coat	
13	elephant	
14	coma	
15	grandfather	
16	book	
17	hippopotamus	
18	movie	
19	garlic	
20	leg	
21	spoon	
22	arm	
23	couch	
24	drum	
25	mother	
26	hall	
27	foot	
28	zebra	
29	aspirin	
30	hand	
31	bed	
32	tiger	
33	racetrack	
34	uncle	
35	panther	
36	bear	
37	rock	
38	pepper	
39	nose	
40	shirt	
41	table	
42	sofa	
43	jam	
44	handsaw	
	TOTAL	WLLG
	Possible	16

Naming Words- This test is to see the speed with which you can read these words. You will read these words as fast as you can, by column. I will tell you when you should start. Read the first, second, third, fourth and fifth column until I say "STOP". Remember, continue reading in a loud voice, as fast as possible until I say "STOP". If you make a mistake I will say "No", correct the error and continue reading without stopping, until I say "STOP". Ready? Begin! (After 45 seconds): "STOP!"

[Interviewer: Keep the test page on the table so that it will be easier to correct the subject if there is a mistake.]

1. RED	21. BLUE	41. GREEN	61. RED	81. BLUE
2. GREEN	22. GREEN	42. RED	62. BLUE	82. GREEN
3. BLUE	23. RED	43. BLUE	63. GREEN	83. RED
4. GREEN	24. BLUE	44. RED	64. RED	84. BLUE
5. RED	25. RED	45. GREEN	65. BLUE	85. GREEN
6. BLUE	26. GREEN	46. BLUE	66. GREEN	86. RED
7. RED	27. BLUE	47. GREEN	67. BLUE	87. GREEN
8. BLUE	28. GREEN	48. RED	68. GREEN	88. RED
9. GREEN	29. RED	49. BLUE	69. RED	89. BLUE
10. BLUE	30. GREEN	50. GREEN	70. BLUE	90. GREEN
11. GREEN	31. RED	51. BLUE	71. RED	91. RED
12. RED	32. BLUE	52. RED	72. GREEN	92. BLUE
13. GREEN	33. RED	53. BLUE	73. RED	93. GREEN
14. BLUE	34. BLUE	54. RED	74. GREEN	94. RED
15. RED	35. GREEN	55. GREEN	75. BLUE	95. BLUE
16. BLUE	36. BLUE	56. RED	76. GREEN	96. RED
17. RED	37. GREEN	57. BLUE	77. RED	97. GREEN
18. GREEN	38. RED	58. GREEN	78. BLUE	98. BLUE
19. RED	39. BLUE	59. RED	79. GREEN	99. RED
20. GREEN	40. RED	60. GREEN	80. BLUE	100. GREEN

Score: Number Correct STRPAL

Naming Colors- This part of the test is to see how quickly you can name these colors. I am going to tell you when to start. Name the colors in a loud voice, as fast as you can. Start with the first column, then the second, etc., just like in the previous task, until I say "STOP". When you finish the fifth column continue with the first column until I say "STOP". If you make a mistake, I will let you know. Correct your mistake and continue naming colors in a loud voice as fast as possible. Ready? "Begin" (After 45 seconds): "STOP!"

[Interviewer: Keep the test page on the table so that it will be easier to correct the subject if there is a mistake.]

1. RED	22. RED	41. BLUE	61. GREEN	81. BLUE	
2. BLUE	22. BLUE	42. GREEN	62. RED	82. GREEN	
3. GREEN	23. RED	43. BLUE	63. BLUE	83. RED	
4. RED	24. GREEN	44. RED	64. RED	84. BLUE	
5. BLUE	25. BLUE	45. GREEN	65. GREEN	85. GREEN	
6. RED	26. GREEN	46. BLUE	66. RED	86. BLUE	
7. GREEN	27. RED	47. GREEN	67. GREEN	87. GREEN	
8. BLUE	28. BLUE	48. RED	68. BLUE	88. RED	
9. RED	29. RED	49. BLUE	69. GREEN	89. GREEN	
10. GREEN	30. BLUE	50. GREEN	70. BLUE	90. BLUE	
11. BLUE	31. GREEN	51. RED	71. RED	91. RED	
12. GREEN	32. BLUE	52. GREEN	72. BLUE	92. BLUE	
13. BLUE	33. RED	53. BLUE	73. RED	93. RED	
14. RED	34. GREEN	54. RED	74. GREEN	94. GREEN	
15. GREEN	35. BLUE	55. GREEN	75. BLUE	95. RED	
16. BLUE	36. RED	56. RED	76. GREEN	96. GREEN	
17. RED	37. GREEN	57. BLUE	77. RED	97. BLUE	
18. GREEN	38. BLUE	58. RED	78. GREEN	98. GREEN	
19. BLUE	39. RED	59. GREEN	79. BLUE	99. RED	
20. RED	40. GREEN	60. BLUE	80. RED	100. BLUE	

Score: Number Correct STRCOL

Naming Colors/Ignoring Words- This part of the test is very similar to the one you have just finished. I am going to ask that you name the color of the ink in which the words are written, and ignore the word that it says. Do not read the words. Only name the color of the ink in which it is written. For example, what will you say here? (Point to the first word of the first column; show another example if necessary). Remember, name the color of the ink in a loud voice, as fast as you can, following the order of the columns. I am going to tell you when to start. I will also indicate when you have made a mistake. Correct yourself and continue as fast as you can. Ready? Begin. (After 45 seconds): "STOP!"

[Interviewer: Keep the test page on the table so that it will be easier to correct the subject if there is a mistake.]

1. BLUE	21. RED	41. BLUE	61. GREEN	81. RED
				011 122
2. RED	22. BLUE	42. GREEN	62. RED	82. BLUE
3. GREEN	23. GREEN	43. RED	63. BLUE	83. GREEN
4. BLUE	24. RED	44. BLUE	64. GREEN	84. RED
5. GREEN	25. GREEN	45. RED	65. RED	85. BLUE
6. RED	26. BLUE	46. GREEN	66. BLUE	86. GREEN
7. GREEN	27. GREEN	47. RED	67. GREEN	87. RED
8. RED	28. RED	48. BLUE	68. RED	88. BLUE
9. BLUE	29. BLUE	49. GREEN	69. BLUE	89. GREEN
10. RED	30. RED	50. RED	70. GREEN	90. BLUE
11. BLUE	31. BLUE	51. GREEN	71. BLUE	91. GREEN
12. GREEN	32. GREEN	52. BLUE	72. RED	92. RED
13. RED	33. BLUE	53. RED	73. BLUE	93. BLUE
14. GREEN	34. GREEN	54. GREEN	74. RED	94. GREEN
15. BLUE	35. RED	55. BLUE	75. GREEN	95. RED
16. GREEN	36. GREEN	56. GREEN	76. BLUE	96. BLUE
17. BLUE	37. RED	57. RED	77. GREEN	97. RED
18. RED	38. BLUE	58. BLUE	78. RED	98. GREEN
19. GREEN	39. RED	59. GREEN	79. BLUE	99. BLUE
20. BLUE	40. GREEN	60. BLUE	80. RED	100. RED

Score: Number Correct STRCP

Neuropsychological Test Battery LETTER FLUENCY L. ARTIOLA i FORTUN Y D. HERMOSILLO ROMO © 1999

Instructions:

"I am going to say a letter of the alphabet and I want you to say as quickly as you can all the words that you can think of which begin with that letter. You may say any words at all, except proper names such as the names of people or places. So you would not say Rochester or Robert. Also do not use the same word again with a different ending such as eat and eating. For example, if I say S, you could say son, sit, strong, or state. Can you think of other words beginning with the letter S? If the subject has succeeded in giving two appropriate words beginning with the demonstration letter, say, "That is fine. Now I am going to give you another letter and again you say all the words beginning with that letter that you can think of. Remember, no names of people or places, just ordinary words. Also, if you draw a blank, I want you to keep on trying until the time limit is up. You will have one minute for each letter. The first letter is C (The second letter is F, the third letter is L)." [Interviewer: For each letter, you are allowed to remind the subject of the rules one time, i.e. word endings, proper nouns, and the letter that they are on]

C	Г	L	
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20			
21.			
22.			
LF1	LF2	LF3	
Score:			

C F

Score: ____

L

DIGIT SPAN L. ARTIOLA I FORTUNY Y D. HERMOSILLO ROMO ©1999 INSTRUCTIONS FOR ADMINISTRATION OF THE DIGIT SPAN

I. Digits Forward

Instructions: "I am going to say some numbers. Listen carefully, and when I am through, I want you to say them right after me. Just say exactly what I say. So for example, if I say 1-2-3, you would say... The sets of numbers will grow longer as I go." **Interviewer:** Read the number sequences at a slow pace. Say one number at a time. Stop when the subject has both sequences incorrect in the same section.

	Sequence 1	Correct y/n	Sequence 2	Correct y/n
1.	9-3		1-5	
2.	5-8-2		6-9-4	
3.	6-4-3-9		7-2-8-6	
4.	4-2-7-3-1		7-5-8-3-6	
5.	6-1-9-4-7-3		3-9-2-4-8-7	
6.	5-9-1-7-4-2-8		4-1-7-9-3-8-6	
7.	5-8-1-9-2-6-4-7		3-8-2-9-5-1-7-4	
8.	2-7-5-8-6-2-5-8-4	DFI	7-1-3-9-4-2-5-6-8	DBI

Digits Forward (ATVERIDE) = ____

II. Digits Backward

Instructions: "Now I am going to say some more numbers. But this time when I stop, I want you to say them backward. For example, if I say 1-2-3, now you would say..." [3-2-1] **Interviewer:** Wait for the subject to respond. If the subject's response is correct, say "Correct", then begin. If the subject does not respond or the response is incorrect; tell them the correct response and give another example.

	Sequence 1	Correct y/n	Sequence 2	Correct y/n
1.	2-4		5-8	
2.	6-2-9		4-1-5	
3.	3-2-7-9		4-9-6-8	
4.	1-5-2-8-6		6-1-8-4-3	
5.	5-3-9-4-1-8		7-2-4-8-5-6	
6.	8-1-2-9-3-6-5		4-7-3-7-1-2-8	
7.	9-4-3-7-6-2-5-8		7-2-8-1-9-6-5-3	

Digits Backward (ATVERINV)= ____

CLOCK DRAWING INSTRUCTIONS

Instructions: "*Pretend this is the face of a clock. Draw a picture of a clock, with numbers and hands that show the time is ten after eleven.*"

Interviewer: The circle is provided on the answer sheet. Only use this circle, since the results of the test are affected by the size of the circle (i.e. the smaller the circle, the easier the task). Give one point for the numbers 1 through 12, on point for each correct positioning of the numbers, and one point for two hands of the clock.

Score	Points	
12 numbers (1-12)	0 1	
12 numbers in the correct position	0 1	
2 hands are on the clock	0 1	CLOCK

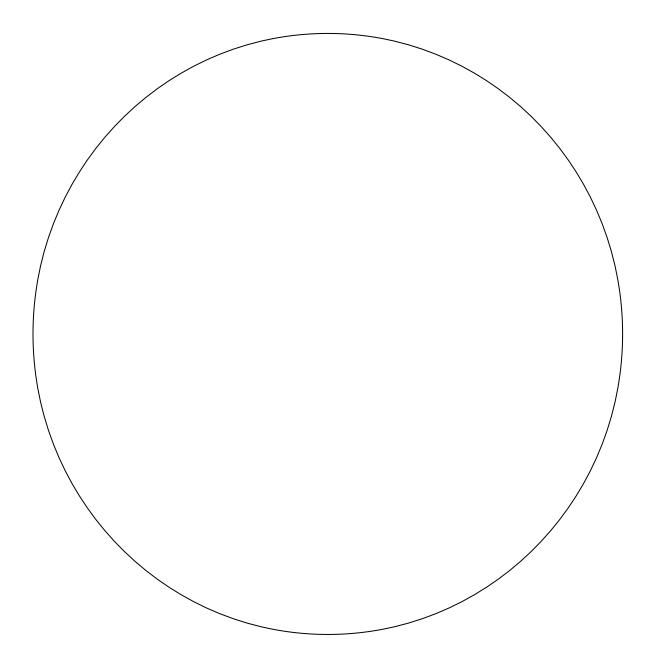


Figure Copying

Instructions: "I'm going to give you some pages with designs on them. I'd like you to copy these designs. Copy them here (hold the pages on the long side, and point to the bottom half of the first page). There are 3 pages of designs for you to copy."

Interviewer:

1. Give the subject a pencil (or a pen). Allow the subject to erase if he/she desires; however, if he/she continues to erase, assure the subject that the figure looks fine and continue with the examination. If the subject wishes to try a drawing again, ask him to make a second drawing to the side of the first. In this case, score the second drawing.

2. If the subject stops after the first page, prompt him to continue to the other pages.

3. Give the subject one or two minutes to complete the drawing of each figure. If the subject has not started to draw the figure in one minute, reassure him, and turn to the next one. If the subject cannot draw 3 figures in a row, discontinue the test.

FC1-FC9, FC_SUM



