

Codebook for Data Set: IALSA Subproject 1**Longitudinal cycle explanation**

All longitudinal data sets are organized by projid + visit or fu_year.

visit	fu_year	explanation
00	0.0	Baseline
01	1.0	1st year follow-up
02	2.0	2nd year follow-up
03	3.0	3rd year follow-up
04	4.0	4th year follow-up
XX	XX.0	XXth year follow-up

variable

suffix	type	explanation
--------	------	-------------

_bl	cross-sectional	baseline cycle score, for medical history questions, it may cover the period from prior to study participation to baseline visit
_ever	cross-sectional	reported in any cycle at least one time
_l	cross-sectional	last cycle score
_lv	cross-sectional	last valid score
_cum	longitudinal	reported in past history or in at least 1 follow-up cycle up to this cyclev

Total variables: 110**Affect & Personality**(count: 20)**Affect & Personality - Depression**

Variable	cesdsum	CESD - Measure of depressive symptoms	Longitudinal																																												
References	<p>Cerebral infarctions and the relationship of depression symptoms to level of cognitive functioning in older persons.</p> <p>Bennett DA, Wilson RS, Schneider JA, Bienias JL, Arnold SE</p> <p>Journal: The American journal of geriatric psychiatry : official journal of the American Association for Geriatric Psychiatry 2004 Mar-Apr; 12(2) 211-9</p> <p>Association of anxiety and depression with microtubule-associated protein 2- and synaptopodin-immunolabeled dendrite and spine densities in hippocampal CA3 of older humans.</p> <p>Soetanto A, Wilson RS, Talbot K, Un A, Schneider JA, Sobiesk M, Kelly J, Leurgans S, Bennett DA, Arnold SE</p> <p>Journal: Archives of general psychiatry 2010 May ; 67(5) 448-57</p> <p>Purpose in Life Is Associated With a Reduced Risk of Incident Disability Among Community-Dwelling Older Persons.</p> <p>Boyle PA, Buchman AS, Bennett DA</p> <p>Journal: The American journal of geriatric psychiatry : official journal of the American Association for Geriatric Psychiatry 2010 Jun 10 ; 18(12) 1093-102</p>																																														
Description	<p>CES-D</p> <p>Depressive symptoms were assessed with a ten-item version of the Center for Epidemiologic Studies Depression scale (CES-D). Persons were asked whether they had experienced each of ten symptoms in the past week, and the score was the number of symptoms reported.</p> <p>If there are items with a missing value and the number of missing items is less than 5, then the score is equal to the average of the nonmissing item values multiplied by 10.</p> <p>Range: 0-10</p> <table> <tr> <th>Codebook variable</th><th>Coding</th><th>Calc</th><th>Codebook question</th></tr> <tr> <td>Q1md</td><td>Yes/No</td><td>yes = +1</td><td>1. I felt that everything I did was an effort</td></tr> <tr> <td>Q2md</td><td>Yes/No</td><td>yes = +1</td><td>2. My sleep was restless</td></tr> <tr> <td>Q3md</td><td>Yes/No</td><td>yes = +1</td><td>3. I felt depressed</td></tr> <tr> <td>Q4md</td><td>Yes/No</td><td>no = +1</td><td>4. I was happy</td></tr> <tr> <td>Q5md</td><td>Yes/No</td><td>yes = +1</td><td>5. I felt lonely</td></tr> <tr> <td>Q6md</td><td>Yes/No</td><td>yes = +1</td><td>6. People were unfriendly</td></tr> <tr> <td>Q7md</td><td>Yes/No</td><td>no = +1</td><td>7. I enjoyed life</td></tr> <tr> <td>Q8md</td><td>Yes/No</td><td>yes = +1</td><td>8. I felt sad</td></tr> <tr> <td>Q9md</td><td>Yes/No</td><td>yes = +1</td><td>9. I felt that people disliked me</td></tr> <tr> <td>Q10md</td><td>Yes/No</td><td>yes = +1</td><td>10. I could not get going</td></tr> </table> <p>Ref: McDowell, I., Newell, C. (1996). Measuring Health: A Guide to Rating Scales and Questionnaires. (2nd. ed.). Oxford:NY</p> <p>Radloff LS. The CES-D scale: A self-report depression scale for research in the general population. Applied Psychological Measurement 1977;1:385-340.</p>			Codebook variable	Coding	Calc	Codebook question	Q1md	Yes/No	yes = +1	1. I felt that everything I did was an effort	Q2md	Yes/No	yes = +1	2. My sleep was restless	Q3md	Yes/No	yes = +1	3. I felt depressed	Q4md	Yes/No	no = +1	4. I was happy	Q5md	Yes/No	yes = +1	5. I felt lonely	Q6md	Yes/No	yes = +1	6. People were unfriendly	Q7md	Yes/No	no = +1	7. I enjoyed life	Q8md	Yes/No	yes = +1	8. I felt sad	Q9md	Yes/No	yes = +1	9. I felt that people disliked me	Q10md	Yes/No	yes = +1	10. I could not get going
Codebook variable	Coding	Calc	Codebook question																																												
Q1md	Yes/No	yes = +1	1. I felt that everything I did was an effort																																												
Q2md	Yes/No	yes = +1	2. My sleep was restless																																												
Q3md	Yes/No	yes = +1	3. I felt depressed																																												
Q4md	Yes/No	no = +1	4. I was happy																																												
Q5md	Yes/No	yes = +1	5. I felt lonely																																												
Q6md	Yes/No	yes = +1	6. People were unfriendly																																												
Q7md	Yes/No	no = +1	7. I enjoyed life																																												
Q8md	Yes/No	yes = +1	8. I felt sad																																												
Q9md	Yes/No	yes = +1	9. I felt that people disliked me																																												
Q10md	Yes/No	yes = +1	10. I could not get going																																												

Variable	r_depres	Major Depression Dx - Clinician Rating	Longitudinal
Other Forms	_l, _lv, _bl		
Description	Major Depression Dx, by DSM-3R criteria. Through review of self report questions, neurological exam (when available), cognitive testing, and interview of participant, clinician renders a diagnosis. The clinician is first presented with algorithmic diagnosis and has the ability to modify if necessary. value coding 1 Highly Probable 2 Probable 3 Possible 4 Not Present		

Affect & Personality - NEO

Variable

agreeableness

NEO agreeableness - ROS

Cross-sectional

References

Conscientiousness and the incidence of Alzheimer disease and mild cognitive impairment.

Wilson RS, Schneider JA, Arnold SE, Bienias JL, Bennett DA

Journal: Archives of general psychiatry 2007 Oct; 64(10) 1204-12

Description

At baseline, we administered the NEO Five-Factor Inventory to quantify openness and 4 other traits that make up a widely accepted 5-trait model of personality. The inventory has 60 items, 12 for each trait. Persons rated agreement with each item on a 5-point scale. Item scores ranged from 0 to 4 and were summed to yield a total score for each trait with higher scores indicating more of the trait.

Agreeableness (eg, I would rather cooperate with others than compete with them) indicates the tendency to be altruistic and helpful. The Cronbach coefficient α , an indicator of internal consistency reliability was 0.66 for agreeableness. These values are comparable to those reported in the normative cohort and indicate adequate levels of internal consistency.

table 1			
response number	response choice	value*	flipped (f) value
1 =	Strongly disagree	0	4
2 =	Disagree	1	3
3 =	Neutral	2	2
4 =	Agree	3	1
5 =	Strongly Agree	4	0

* value = (response number -1)

variable	coding	question
per4	table1	I try to be courteous to everyone I meet.
per9	table1(f)	I often get into arguments with my family and co-workers.
per14	table1(f)	Some people think I m selfish and egotistical.
per19	table1	I would rather cooperate with others than compete with them.
per24	table1(f)	I tend to be cynical and skeptical of others intentions.
per29	table1(f)	I believe that most people will take advantage of you if you let them.
per34	table1	Most people I know like me.
per39	table1(f)	Some people think of me as cold and calculating.
per44	table1(f)	I am hard-headed and tough-minded in my attitudes.
per49	table1	I generally try to be thoughtful and considerate.
per54	table1(f)	If I don t like people, I let them know it.
per59	table1(f)	If necessary, I am willing to manipulate people to get what I want.

Costa PT, McCrae RR. NEO Personality Inventory-revised. Professional manual. Lutz, FL: Psychological Assessment Resources, 1992.

Variable	conscientiousness	Conscientiousness - ROS/MAP	Cross-sectional																																																																			
References	Conscientiousness and the incidence of Alzheimer disease and mild cognitive impairment. Wilson RS, Schneider JA, Arnold SE, Bienias JL, Bennett DA Journal: Archives of general psychiatry 2007 Oct; 64(10) 1204-12																																																																					
Description	<p>We administered the NEO Five-Factor Inventory to quantify conscientiousness and 4 other traits that make up a widely accepted 5-trait model of personality. The inventory has 60 items, 12 for each trait. Persons rated agreement with each item on a 5-point scale. Item scores ranged from 0 to 4 and were summed to yield a total score for each trait that ranged from 0 to 48, with higher scores indicating more of a trait.</p> <p>Conscientiousness (eg, "I am a productive person who always gets the job done") refers to a tendency to be self-disciplined, scrupulous, and purposeful. The Cronbach coefficient alpha, an indicator of internal consistency reliability, was 0.81 for conscientiousness. These values are comparable to those reported in the normative cohort and indicate adequate levels of internal consistency.</p> <p>Conscientiousness is sum of all the below items.</p> <p>Range: 0-48</p> <table><tr><td>table 1</td><td></td><td></td><td></td></tr><tr><td>response number</td><td>response choice</td><td>value*</td><td>flipped (f) value</td></tr><tr><td>1 =</td><td>Strongly disagree</td><td>0</td><td>4</td></tr><tr><td>2 =</td><td>Disagree</td><td>1</td><td>3</td></tr><tr><td>3 =</td><td>Neutral</td><td>2</td><td>2</td></tr><tr><td>4 =</td><td>Agree</td><td>3</td><td>1</td></tr><tr><td>5 =</td><td>Strongly Agree</td><td>4</td><td>0</td></tr></table> <p>* value = (response number -1)</p> <table><tr><td>ROS/MAP variable</td><td>coding</td><td>question</td></tr><tr><td>per5/clean17</td><td>table1</td><td>1. I keep my belongings clean and neat.</td></tr><tr><td>per10/pacing18</td><td>table1</td><td>2. I'm pretty good about pacing myself so as to get things done on time.</td></tr><tr><td>per15/method19</td><td>table1(f)</td><td>3. I am not a very methodical person.</td></tr><tr><td>per20/tasks20</td><td>table1</td><td>4. I try to perform all the tasks assigned to me conscientiously.</td></tr><tr><td>per25/goals21</td><td>table1</td><td>5. I have a clear set of goals and work toward them in an orderly fashion.</td></tr><tr><td>per30/waste22</td><td>table1(f)</td><td>6. I waste a lot of time before settling down to work.</td></tr><tr><td>per35/accomp23</td><td>table1</td><td>7. I work hard to accomplish my goals.</td></tr><tr><td>per40/follow24</td><td>table1</td><td>8. When I make a commitment, I can always be counted on to follow through.</td></tr><tr><td>per45/depend25</td><td>table1(f)</td><td>9. Sometimes I m not as dependable or reliable as I should be.</td></tr><tr><td>per50/product2</td><td>table1</td><td>10. I am a productive person who always gets the job done.</td></tr><tr><td>per55/organiz2</td><td>table1(f)</td><td>11. I never seem to be able to get organized.</td></tr><tr><td>per60/excelln2</td><td>table1</td><td>12. I strive for excellence in everything I do.</td></tr></table>			table 1				response number	response choice	value*	flipped (f) value	1 =	Strongly disagree	0	4	2 =	Disagree	1	3	3 =	Neutral	2	2	4 =	Agree	3	1	5 =	Strongly Agree	4	0	ROS/MAP variable	coding	question	per5/clean17	table1	1. I keep my belongings clean and neat.	per10/pacing18	table1	2. I'm pretty good about pacing myself so as to get things done on time.	per15/method19	table1(f)	3. I am not a very methodical person.	per20/tasks20	table1	4. I try to perform all the tasks assigned to me conscientiously.	per25/goals21	table1	5. I have a clear set of goals and work toward them in an orderly fashion.	per30/waste22	table1(f)	6. I waste a lot of time before settling down to work.	per35/accomp23	table1	7. I work hard to accomplish my goals.	per40/follow24	table1	8. When I make a commitment, I can always be counted on to follow through.	per45/depend25	table1(f)	9. Sometimes I m not as dependable or reliable as I should be.	per50/product2	table1	10. I am a productive person who always gets the job done.	per55/organiz2	table1(f)	11. I never seem to be able to get organized.	per60/excelln2	table1	12. I strive for excellence in everything I do.
table 1																																																																						
response number	response choice	value*	flipped (f) value																																																																			
1 =	Strongly disagree	0	4																																																																			
2 =	Disagree	1	3																																																																			
3 =	Neutral	2	2																																																																			
4 =	Agree	3	1																																																																			
5 =	Strongly Agree	4	0																																																																			
ROS/MAP variable	coding	question																																																																				
per5/clean17	table1	1. I keep my belongings clean and neat.																																																																				
per10/pacing18	table1	2. I'm pretty good about pacing myself so as to get things done on time.																																																																				
per15/method19	table1(f)	3. I am not a very methodical person.																																																																				
per20/tasks20	table1	4. I try to perform all the tasks assigned to me conscientiously.																																																																				
per25/goals21	table1	5. I have a clear set of goals and work toward them in an orderly fashion.																																																																				
per30/waste22	table1(f)	6. I waste a lot of time before settling down to work.																																																																				
per35/accomp23	table1	7. I work hard to accomplish my goals.																																																																				
per40/follow24	table1	8. When I make a commitment, I can always be counted on to follow through.																																																																				
per45/depend25	table1(f)	9. Sometimes I m not as dependable or reliable as I should be.																																																																				
per50/product2	table1	10. I am a productive person who always gets the job done.																																																																				
per55/organiz2	table1(f)	11. I never seem to be able to get organized.																																																																				
per60/excelln2	table1	12. I strive for excellence in everything I do.																																																																				

Variable	extraversion	NEO extraversion - ROS/MAP	Cross-sectional
References	Conscientiousness and the incidence of Alzheimer disease and mild cognitive impairment. Wilson RS, Schneider JA, Arnold SE, Bienias JL, Bennett DA Journal: Archives of general psychiatry 2007 Oct; 64(10) 1204-12		
Description	<p>We administered the NEO Five-Factor Inventory to quantify extraversion and 4 other traits that make up a widely accepted 5-trait model of personality. The inventory has 60 items, 12 for each trait. Persons rated agreement with each item on a 5-point scale. Item scores ranged from 0 to 4 and were summed to yield a total score for each trait that ranged from 0 to 48, with higher scores indicating more of a trait.</p> <p>Extraversion (eg, "I laugh easily") is the tendency to be sociable, active, and optimistic. The Cronbach coefficient alpha, an indicator of internal consistency reliability, was 0.78 for extraversion. These values are comparable to those reported in the normative cohort and indicate adequate levels of internal consistency.</p> <p>range: 0 to 48</p> <pre> table 1 response response number choice value* flipped (f) 1 = Strongly disagree 0 4 2 = Disagree 1 3 3 = Neutral 2 2 4 = Agree 3 1 5 = Strongly Agree 4 0 * value = (response number -1) variable MAP/ROS coding question people/per2 table1 I like to have a lot of people around me. laugh/per7 table1 I laugh easily. talking/per17 table1 I really enjoy talking to people. alone/per27 table1(f) I usually prefer to do things alone. cheerful/per37 table1 I am a cheerful, high-spirited person. active/per52 table1 I am a very active person. </pre> <p>Costa PT, McCrae RR. NEO Personality Inventory-revised. Professional manual. Lutz, FL: Psychological Assessment Resources, 1992.</p>		

Variable	neo_altruism	NEO Altruism scale - MAP	Cross-sectional
References	Conscientiousness and the incidence of Alzheimer disease and mild cognitive impairment. Wilson RS, Schneider JA, Arnold SE, Bienias JL, Bennett DA Journal: Archives of general psychiatry 2007 Oct; 64(10) 1204-12		
Description	<p>Altruism rating is based on 8 self report questions where a higher scores indicates a increased level of altruism. Each question provides a statement that subject must agree or disagree with as it pertains to their personality.</p> <p>range: 0 to 32</p> <pre> table 1 response response number choice value* flipped (f) 1 = Strongly disagree 0 4 2 = Disagree 1 3 3 = Neutral 2 2 4 = Agree 3 1 5 = Strongly Agree 4 0 * value = (response number -1) variable coding question selfish9 table1(f) 9. Some people think I m selfish and egotistical. courts10 table1 10. I try to be courteous to everyone I meet. cold11 table1(f) 11. Some people think of me as cold and calculating. consid12 table1 12. I generally try to be thoughtful and considerate. geners13 table1(f) 13. I m not known for my generosity. like14 table1 14. Most people I know like me. charit15 table1 15. I think of myself as a charitable person. help16 table1 16. I go out of my way to help others if I can. </pre> <p>Costa PT, McCrae RR. NEO Personality Inventory-revised. Professional manual. Lutz, FL: Psychological Assessment Resources, 1992.</p>		

Variable

neo_conscientiousness

NEO Conscientiousness - MAP

Cross-sectional

References

Conscientiousness and the incidence of Alzheimer disease and mild cognitive impairment.
Wilson RS, Schneider JA, Arnold SE, Bienias JL, Bennett DA
Journal: Archives of general psychiatry 2007 Oct; 64(10) 1204-12

Description

Conscientiousness rating is based on 12 self report questions where a higher scores indicates a increased level of conscientiousness. Each question provides a statement that subject must agree or disagree with as it pertains to their personality.
range: 0 to 48

table 1			
response number	response choice	value*	flipped (f) value
1 =	Strongly disagree	0	4
2 =	Disagree	1	3
3 =	Neutral	2	2
4 =	Agree	3	1
5 =	Strongly Agree	4	0

* value = (response number -1)

variable	coding	question
clean17	table1	17. I keep my belongings clean and neat.
pacing18	table1	18. I m pretty good about pacing myself so as to get things done on time.
method19	table1(f)	19. I am not a very methodical person.
tasks20	table1	20. I try to perform all the tasks assigned to me conscientiously.
goals21	table1	21. I have a clear set of goals and work toward them in an orderly fashion.
waste22	table1(f)	22. I waste a lot of time before settling down to work.
accompl12	table1	23. I work hard to accomplish my goals.
follow24	table1	24. When I make a commitment, I can always be counted on to follow through.
depend25	table1(f)	25. Sometimes I m not as dependable or reliable as I should be.
product2	table1	26. I am a productive person who always gets the job done.
organiz2	table1(f)	27. I never seem to be able to get organized.
excelln2	table1	28. I strive for excellence in everything I do.

Costa PT, McCrae RR. NEO Personality Inventory-revised. Professional manual. Lutz, FL: Psychological Assessment Resources, 1992.

Variable	neo_trust	NEO Trust - MAP	Cross-sectional																																																							
References	<p>Conscientiousness and the incidence of Alzheimer disease and mild cognitive impairment.</p> <p>Wilson RS, Schneider JA, Arnold SE, Bienias JL, Bennett DA</p> <p>Journal: Archives of general psychiatry 2007 Oct; 64(10) 1204-12</p>																																																									
Description	<p>Trust rating is based on 8 self report questions where a higher scores indicates a increased level of trust. Each question provides a statement that subject must agree or disagree with as it pertains to their personality.</p> <p>range: 0 to 32</p> <table><tr><td colspan="4">table 1</td></tr><tr><td>response number</td><td>response choice</td><td>value*</td><td>flipped (f) value</td></tr><tr><td>1 =</td><td>Strongly disagree</td><td>0</td><td>4</td></tr><tr><td>2 =</td><td>Disagree</td><td>1</td><td>3</td></tr><tr><td>3 =</td><td>Neutral</td><td>2</td><td>2</td></tr><tr><td>4 =</td><td>Agree</td><td>3</td><td>1</td></tr><tr><td>5 =</td><td>Strongly Agree</td><td>4</td><td>0</td></tr></table> <p>* value = (response number -1)</p> <table><tr><td>variable</td><td>coding</td><td>question</td></tr><tr><td>cynic1</td><td>table1(f)</td><td>1. I tend to be cynical and skeptical of others intentions.</td></tr><tr><td>wellin2</td><td>table1</td><td>2. I believe that most people are basically well-intentioned.</td></tr><tr><td>advant3</td><td>table1(f)</td><td>3. I believe that most people will take advantage of you if you let them.</td></tr><tr><td>honest4</td><td>table1</td><td>4. I think most of the people I deal with are honest and trustworthy.</td></tr><tr><td>suspici5</td><td>table1(f)</td><td>5. I m suspicious when someone does something nice for me.</td></tr><tr><td>trust6</td><td>table1</td><td>6. My first reaction is to trust people.</td></tr><tr><td>best7</td><td>table1</td><td>7. I tend to assume the best about people.</td></tr><tr><td>faith8</td><td>table1</td><td>8. I have a good deal of faith in human nature.</td></tr></table> <p>Costa PT, McCrae RR. NEO Personality Inventory-revised. Professional manual. Lutz, FL: Psychological Assessment Resources. 1992.</p>			table 1				response number	response choice	value*	flipped (f) value	1 =	Strongly disagree	0	4	2 =	Disagree	1	3	3 =	Neutral	2	2	4 =	Agree	3	1	5 =	Strongly Agree	4	0	variable	coding	question	cynic1	table1(f)	1. I tend to be cynical and skeptical of others intentions.	wellin2	table1	2. I believe that most people are basically well-intentioned.	advant3	table1(f)	3. I believe that most people will take advantage of you if you let them.	honest4	table1	4. I think most of the people I deal with are honest and trustworthy.	suspici5	table1(f)	5. I m suspicious when someone does something nice for me.	trust6	table1	6. My first reaction is to trust people.	best7	table1	7. I tend to assume the best about people.	faith8	table1	8. I have a good deal of faith in human nature.
table 1																																																										
response number	response choice	value*	flipped (f) value																																																							
1 =	Strongly disagree	0	4																																																							
2 =	Disagree	1	3																																																							
3 =	Neutral	2	2																																																							
4 =	Agree	3	1																																																							
5 =	Strongly Agree	4	0																																																							
variable	coding	question																																																								
cynic1	table1(f)	1. I tend to be cynical and skeptical of others intentions.																																																								
wellin2	table1	2. I believe that most people are basically well-intentioned.																																																								
advant3	table1(f)	3. I believe that most people will take advantage of you if you let them.																																																								
honest4	table1	4. I think most of the people I deal with are honest and trustworthy.																																																								
suspici5	table1(f)	5. I m suspicious when someone does something nice for me.																																																								
trust6	table1	6. My first reaction is to trust people.																																																								
best7	table1	7. I tend to assume the best about people.																																																								
faith8	table1	8. I have a good deal of faith in human nature.																																																								

Variable	openness	NEO openness - ROS	Cross-sectional																								
References	<p>Conscientiousness and the incidence of Alzheimer disease and mild cognitive impairment.</p> <p>Wilson RS, Schneider JA, Arnold SE, Bienias JL, Bennett DA</p> <p>Journal: Archives of general psychiatry 2007 Oct; 64(10) 1204-12</p>																										
Description	<p>At baseline, we administered the NEO Five-Factor Inventory to quantify openness and 4 other traits that make up a widely accepted 5-trait model of personality. The inventory has 60 items, 12 for each trait. Persons rated agreement with each item on a 5-point scale. Item scores ranged from 0 to 4 and were summed to yield a total score for each trait with higher scores indicating more of the trait.</p> <p>Openness (eg, I often try new and foreign foods) refers to intellectual curiosity and independence of judgment. The Cronbach coefficient, an indicator of internal consistency reliability was 0.68 for openness. These values are comparable to those reported in the normative cohort and indicate adequate levels of internal consistency.</p> <p>range: 0 to 48</p> <p>table 1</p> <table> <tr> <th>response number</th><th>response choice</th><th>value*</th><th>flipped (f) value</th></tr> <tr> <td>1 =</td><td>Strongly disagree</td><td>0</td><td>4</td></tr> <tr> <td>2 =</td><td>Disagree</td><td>1</td><td>3</td></tr> <tr> <td>3 =</td><td>Neutral</td><td>2</td><td>2</td></tr> <tr> <td>4 =</td><td>Agree</td><td>3</td><td>1</td></tr> <tr> <td>5 =</td><td>Strongly Agree</td><td>4</td><td>0</td></tr> </table> <p>* value = (response number -1)</p> <p>variable coding question</p> <p>per3 table1(f) I don t like to waste my time daydreaming.</p> <p>per8 table1(f) Once I find the right way to do something, I stick to it.</p> <p>per13 table1 I am intrigued by the patterns I find in art and nature.</p> <p>per18 table1(f) I believe letting students hear controversial speakers can only confuse and mislead them.</p> <p>per23 table1(f) Poetry has little or no effect on me.</p> <p>per28 table1 I often try new and foreign foods.</p> <p>per33 table1(f) I seldom notice the moods or feelings that different environments produce.</p> <p>per38 table1(f) I believe we should look to our religious authorities for decisions on moral issues.</p> <p>per43 table1 Sometimes when I am reading poetry or looking at a work of art, I feel a chill or wave of excitement.</p> <p>per48 table1(f) I have little interest in speculating on the nature of the universe or the human condition.</p> <p>per53 table1 I have a lot of intellectual curiosity.</p> <p>per58 table1 I often enjoy playing with theories or abstract ideas.</p> <p>Costa PT, McCrae RR. NEO Personality Inventory-revised. Professional manual. Lutz, FL: Psychological Assessment Resources, 1992.</p>			response number	response choice	value*	flipped (f) value	1 =	Strongly disagree	0	4	2 =	Disagree	1	3	3 =	Neutral	2	2	4 =	Agree	3	1	5 =	Strongly Agree	4	0
response number	response choice	value*	flipped (f) value																								
1 =	Strongly disagree	0	4																								
2 =	Disagree	1	3																								
3 =	Neutral	2	2																								
4 =	Agree	3	1																								
5 =	Strongly Agree	4	0																								

Affect & Personality - Negative

Variable	Negative Social Exchange - Intrusion - MAP		Longitudinal																																	
Description	<p>Intrusion - This calculation represents the mean of three questions which ask the participant to rate frequency of scenarios in the past month where they experienced intrusion. The higher the score, the more frequent the occurrence of intrusion. This is part of the scale of Negative Social Exchange.</p> <p>range: 1 to 5</p> <table><tr><td>table1</td><td></td><td></td></tr><tr><td>value</td><td>response</td><td></td></tr><tr><td>1</td><td>Never</td><td></td></tr><tr><td>2</td><td>Not very often</td><td></td></tr><tr><td>3</td><td>Sometimes</td><td></td></tr><tr><td>4</td><td>Often</td><td></td></tr><tr><td>5</td><td>Very often</td><td></td></tr></table> <table><tr><td>variable</td><td>coding</td><td>question</td></tr><tr><td>negat1</td><td>table1</td><td>In the past month, how often did the people that you know give you unwanted advice?</td></tr><tr><td>negat2</td><td>table1</td><td>In the past month, how often did the people that you know question or doubt your decisions?</td></tr><tr><td>negat3</td><td>table1</td><td>In the past month, how often did the people that you know interfere or meddle in your personal matters?</td></tr></table>			table1			value	response		1	Never		2	Not very often		3	Sometimes		4	Often		5	Very often		variable	coding	question	negat1	table1	In the past month, how often did the people that you know give you unwanted advice?	negat2	table1	In the past month, how often did the people that you know question or doubt your decisions?	negat3	table1	In the past month, how often did the people that you know interfere or meddle in your personal matters?
table1																																				
value	response																																			
1	Never																																			
2	Not very often																																			
3	Sometimes																																			
4	Often																																			
5	Very often																																			
variable	coding	question																																		
negat1	table1	In the past month, how often did the people that you know give you unwanted advice?																																		
negat2	table1	In the past month, how often did the people that you know question or doubt your decisions?																																		
negat3	table1	In the past month, how often did the people that you know interfere or meddle in your personal matters?																																		

Variable	neglifeevents	Negative Life Events	Longitudinal																																																																												
Description	<p>Negative Life Events - Participants are asked a series of questions regarding life events occurrence in the past year. For each question answered as "yes", 1 point is added to total. The higher the score the more negative life events have occurred in the past year.</p> <p>range: 0 to 18</p> <table> <tr> <td>variable</td><td>coding</td><td>calc</td><td>question</td></tr> <tr> <td>life1</td><td>Yes/No</td><td>Yes = +1</td><td>During the past year, did you experience an illness or injury (get sick or hurt) that required staying overnight or longer in a hospital (not a nursing home)?</td></tr> <tr> <td>life2</td><td>Yes/No</td><td>Yes = +1</td><td>During the past year, did you experience an illness or injury (get sick or hurt) that kept you from your usual activities (work, housework) for a week or more?</td></tr> <tr> <td>life3</td><td>Yes/No</td><td>Yes = +1</td><td>During the past year, did you get a divorce?</td></tr> <tr> <td>life4</td><td>Yes/No</td><td>Yes = +1</td><td>During the past year, did your husband/wife die?</td></tr> <tr> <td>life5</td><td>Yes/No</td><td>Yes = +1</td><td>During the past year, did one of your children die?</td></tr> <tr> <td>life6</td><td>Yes/No</td><td></td><td>During the past year, did your husband/wife, child, or other household member move out or leave your home?</td></tr> <tr> <td>life7</td><td>Yes/No</td><td>Yes = +1</td><td>During the past year, did a close family member or friend (other than husband/wife/child) die?</td></tr> <tr> <td>life8</td><td>Yes/No</td><td>Yes = +1</td><td>During the past year, did a close family member or friend experience a serious illness or injury?</td></tr> <tr> <td>life9</td><td>Yes/No</td><td>Yes = +1</td><td>During the past year, did you or a family member have any legal trouble (trouble with the law)?</td></tr> <tr> <td>life10</td><td>Yes/No</td><td>Yes = +1</td><td>During the past year, did your financial situation get considerably worse?</td></tr> <tr> <td>life11</td><td>Yes/No</td><td>Yes = +1</td><td>During the past year, did you move?</td></tr> <tr> <td>life12</td><td>Yes/No</td><td>Yes = +1</td><td>During the past year, was your driver's license taken away?</td></tr> <tr> <td>life13</td><td>Yes/No</td><td>Yes = +1</td><td>During the past year, was your husband/wife hospitalized?</td></tr> <tr> <td>life14</td><td>Yes/No</td><td>Yes = +1</td><td>During the past year, was any other family member placed in an institution or nursing home?</td></tr> <tr> <td>life15</td><td>Yes/No</td><td>Yes = +1</td><td>During the past year, were you institutionalized?</td></tr> <tr> <td>life16</td><td>Yes/No</td><td>Yes = +1</td><td>During the past year, did you begin needing help with daily activities?</td></tr> <tr> <td>life17</td><td>Yes/No</td><td>Yes = +1</td><td>During the past year, did you have to assume caregiver responsibilities for someone else?</td></tr> <tr> <td>life18</td><td>Yes/No</td><td>Yes = +1</td><td>During the past year, did one of your children experience a serious problem?</td></tr> </table>			variable	coding	calc	question	life1	Yes/No	Yes = +1	During the past year, did you experience an illness or injury (get sick or hurt) that required staying overnight or longer in a hospital (not a nursing home)?	life2	Yes/No	Yes = +1	During the past year, did you experience an illness or injury (get sick or hurt) that kept you from your usual activities (work, housework) for a week or more?	life3	Yes/No	Yes = +1	During the past year, did you get a divorce?	life4	Yes/No	Yes = +1	During the past year, did your husband/wife die?	life5	Yes/No	Yes = +1	During the past year, did one of your children die?	life6	Yes/No		During the past year, did your husband/wife, child, or other household member move out or leave your home?	life7	Yes/No	Yes = +1	During the past year, did a close family member or friend (other than husband/wife/child) die?	life8	Yes/No	Yes = +1	During the past year, did a close family member or friend experience a serious illness or injury?	life9	Yes/No	Yes = +1	During the past year, did you or a family member have any legal trouble (trouble with the law)?	life10	Yes/No	Yes = +1	During the past year, did your financial situation get considerably worse?	life11	Yes/No	Yes = +1	During the past year, did you move?	life12	Yes/No	Yes = +1	During the past year, was your driver's license taken away?	life13	Yes/No	Yes = +1	During the past year, was your husband/wife hospitalized?	life14	Yes/No	Yes = +1	During the past year, was any other family member placed in an institution or nursing home?	life15	Yes/No	Yes = +1	During the past year, were you institutionalized?	life16	Yes/No	Yes = +1	During the past year, did you begin needing help with daily activities?	life17	Yes/No	Yes = +1	During the past year, did you have to assume caregiver responsibilities for someone else?	life18	Yes/No	Yes = +1	During the past year, did one of your children experience a serious problem?
variable	coding	calc	question																																																																												
life1	Yes/No	Yes = +1	During the past year, did you experience an illness or injury (get sick or hurt) that required staying overnight or longer in a hospital (not a nursing home)?																																																																												
life2	Yes/No	Yes = +1	During the past year, did you experience an illness or injury (get sick or hurt) that kept you from your usual activities (work, housework) for a week or more?																																																																												
life3	Yes/No	Yes = +1	During the past year, did you get a divorce?																																																																												
life4	Yes/No	Yes = +1	During the past year, did your husband/wife die?																																																																												
life5	Yes/No	Yes = +1	During the past year, did one of your children die?																																																																												
life6	Yes/No		During the past year, did your husband/wife, child, or other household member move out or leave your home?																																																																												
life7	Yes/No	Yes = +1	During the past year, did a close family member or friend (other than husband/wife/child) die?																																																																												
life8	Yes/No	Yes = +1	During the past year, did a close family member or friend experience a serious illness or injury?																																																																												
life9	Yes/No	Yes = +1	During the past year, did you or a family member have any legal trouble (trouble with the law)?																																																																												
life10	Yes/No	Yes = +1	During the past year, did your financial situation get considerably worse?																																																																												
life11	Yes/No	Yes = +1	During the past year, did you move?																																																																												
life12	Yes/No	Yes = +1	During the past year, was your driver's license taken away?																																																																												
life13	Yes/No	Yes = +1	During the past year, was your husband/wife hospitalized?																																																																												
life14	Yes/No	Yes = +1	During the past year, was any other family member placed in an institution or nursing home?																																																																												
life15	Yes/No	Yes = +1	During the past year, were you institutionalized?																																																																												
life16	Yes/No	Yes = +1	During the past year, did you begin needing help with daily activities?																																																																												
life17	Yes/No	Yes = +1	During the past year, did you have to assume caregiver responsibilities for someone else?																																																																												
life18	Yes/No	Yes = +1	During the past year, did one of your children experience a serious problem?																																																																												

Variable	negsocexchange		Negative Social Exchange	Longitudinal
Description	Negative Social Exchange - This calculation represents the mean of twelve questions which ask the participant to rate frequency of scenarios in the past month where they experienced negative exchange. The higher the score, the greater the frequency of negative social exchange.			
	range: 1 to 5			
	table1			
	value	response		
	1	Never		
	2	Not very often		
	3	Sometimes		
	4	Often		
	5	Very often		
	variable	coding	question	
	negat1	table1	In the past month, how often did the people that you know give you unwanted advice?	
	negat2	table1	In the past month, how often did the people that you know question or doubt your decisions?	
	negat3	table1	In the past month, how often did the people that you know interfere or meddle in your personal matters?	
	negat4	table1	In the past month, how often did the people that you know let you down when you needed help?	
	negat5	table1	In the past month, how often did the people that you know ask for too much help?	
	negat6	table1	In the past month, how often did the people that you know fail to give you assistance that you were counting on?	
	negat7	table1	In the past month, how often did the people that you know leave you out of activities that you would have enjoyed?	
	negat8	table1	In the past month, how often did the people that you know forget or ignore you?	
	negat9	table1	In the past month, how often did the people that you know fail to spend enough time with you?	
	negat10	table1	In the past month, how often did the people that you know do things that were thoughtless or inconsiderate?	
	negat11	table1	In the past month, how often did the people that you know act angry or upset with you?	
	negat12	table1	In the past month, how often did the people that you know act unsympathetic or critical about a personal concern of yours?	

Variable	nohelp	Negative Social Exchange - Help - MAP		Longitudinal
Description	No help - This calculation represents the mean of three questions which ask the participant to rate frequency of scenarios in the past month where they experienced issues with help. This is part of the scale of Negative Social Exchange.			
	range: 1 to 5			
	table1			
	value	response		
	1	Never		
	2	Not very often		
	3	Sometimes		
	4	Often		
	5	Very often		
	variable	coding	question	
	negat4	table1	In the past month, how often did the people that you know let you down when you needed help?	
	negat5	table1	In the past month, how often did the people that you know ask for too much help?	
	negat6	table1	In the past month, how often did the people that you know fail to give you assistance that you were counting on?	

Variable	panas	Panas score	Longitudinal																																																						
Description	<p>PANAS - Positive and Negative Affect Schedule - Ten questions are asked to assess affect in the past week. The mean is taken and the higher the score, the higher the negative affect.</p> <p>range: 1 to 5</p> <table><tr><td>table1</td><td></td><td></td></tr><tr><td>value</td><td>response</td><td></td></tr><tr><td>1</td><td>Very slightly or not at all</td><td></td></tr><tr><td>2</td><td>A little</td><td></td></tr><tr><td>3</td><td>Moderately</td><td></td></tr><tr><td>4</td><td>Quite a bit</td><td></td></tr><tr><td>5</td><td>Extremely</td><td></td></tr></table> <table><tr><td>variable</td><td>coding</td><td>question</td></tr><tr><td>panas1</td><td>table1</td><td>Have you felt distressed in the past week?</td></tr><tr><td>panas2</td><td>table1</td><td>Have you felt upset in the past week?</td></tr><tr><td>panas3</td><td>table1</td><td>Have you felt guilty in the past week?</td></tr><tr><td>panas4</td><td>table1</td><td>Have you felt scared in the past week?</td></tr><tr><td>panas5</td><td>table1</td><td>Have you felt hostile in the past week?</td></tr><tr><td>panas6</td><td>table1</td><td>Have you felt irritable in the past week?</td></tr><tr><td>panas7</td><td>table1</td><td>Have you felt ashamed in the past week?</td></tr><tr><td>panas8</td><td>table1</td><td>Have you felt nervous in the past week?</td></tr><tr><td>panas9</td><td>table1</td><td>Have you felt jittery in the past week?</td></tr><tr><td>panas10</td><td>table1</td><td>Have you felt fearful in the past week?</td></tr></table> <p>Reference</p> <p>Watson, D., Clark, L. A., & Tellegen, A. (1988). Development and validation of brief measures of positive and negative affect: The PANAS scales. <i>Journal of Personality and Social Psychology</i>, 54(6), 1063-1070.</p>			table1			value	response		1	Very slightly or not at all		2	A little		3	Moderately		4	Quite a bit		5	Extremely		variable	coding	question	panas1	table1	Have you felt distressed in the past week?	panas2	table1	Have you felt upset in the past week?	panas3	table1	Have you felt guilty in the past week?	panas4	table1	Have you felt scared in the past week?	panas5	table1	Have you felt hostile in the past week?	panas6	table1	Have you felt irritable in the past week?	panas7	table1	Have you felt ashamed in the past week?	panas8	table1	Have you felt nervous in the past week?	panas9	table1	Have you felt jittery in the past week?	panas10	table1	Have you felt fearful in the past week?
table1																																																									
value	response																																																								
1	Very slightly or not at all																																																								
2	A little																																																								
3	Moderately																																																								
4	Quite a bit																																																								
5	Extremely																																																								
variable	coding	question																																																							
panas1	table1	Have you felt distressed in the past week?																																																							
panas2	table1	Have you felt upset in the past week?																																																							
panas3	table1	Have you felt guilty in the past week?																																																							
panas4	table1	Have you felt scared in the past week?																																																							
panas5	table1	Have you felt hostile in the past week?																																																							
panas6	table1	Have you felt irritable in the past week?																																																							
panas7	table1	Have you felt ashamed in the past week?																																																							
panas8	table1	Have you felt nervous in the past week?																																																							
panas9	table1	Have you felt jittery in the past week?																																																							
panas10	table1	Have you felt fearful in the past week?																																																							

Variable	perceivedstress	Perceived Stress	Longitudinal																																				
References	<p>Early life socioeconomic status and late life risk of Alzheimer's disease.</p> <p>Wilson RS, Scherr PA, Hoganson G, Bienias JL, Evans DA, Bennett DA</p> <p>Journal: Neuroepidemiology 2005 ; 25(1) 8-14</p>																																						
Description	<p>Perceived Stress - This calculation represents the mean of four questions which ask the participant to rate frequency of scenarios in the past month where they experienced stress. The higher the score, the higher the occurrence of perceived stress.</p> <p>range: 1 to 5</p> <table><tr><td>table1</td><td></td><td></td></tr><tr><td>value</td><td>flipped value</td><td>response</td></tr><tr><td>0</td><td>4</td><td>Never</td></tr><tr><td>1</td><td>3</td><td>Almost never</td></tr><tr><td>2</td><td>2</td><td>Sometimes</td></tr><tr><td>3</td><td>1</td><td>Fairly often</td></tr><tr><td>4</td><td>0</td><td>Very often</td></tr></table> <table><tr><td>variable</td><td>coding</td><td>question</td></tr><tr><td>stress1</td><td>table1</td><td>In the past month, how often have you felt that you were unable to control the important things in your life?</td></tr><tr><td>stress2</td><td>table1-flip</td><td>In the last month, how often have you felt confident about your ability to handle your personal problems?</td></tr><tr><td>stress3</td><td>table1-flip</td><td>In the last month, how often have you felt that things were not going your way?</td></tr><tr><td>stress4</td><td>table1</td><td>In the last month, how often have you felt difficulties were piling up so high that you could not overcome them?</td></tr></table> <p>Prevention in psychiatry: effects of healthy lifestyle on cognition. Merrill DA, Small GW. Psychiatr Clin North Am. 2011 Mar;34(1):249-61. Epub 2010 Dec 16. Review.</p>			table1			value	flipped value	response	0	4	Never	1	3	Almost never	2	2	Sometimes	3	1	Fairly often	4	0	Very often	variable	coding	question	stress1	table1	In the past month, how often have you felt that you were unable to control the important things in your life?	stress2	table1-flip	In the last month, how often have you felt confident about your ability to handle your personal problems?	stress3	table1-flip	In the last month, how often have you felt that things were not going your way?	stress4	table1	In the last month, how often have you felt difficulties were piling up so high that you could not overcome them?
table1																																							
value	flipped value	response																																					
0	4	Never																																					
1	3	Almost never																																					
2	2	Sometimes																																					
3	1	Fairly often																																					
4	0	Very often																																					
variable	coding	question																																					
stress1	table1	In the past month, how often have you felt that you were unable to control the important things in your life?																																					
stress2	table1-flip	In the last month, how often have you felt confident about your ability to handle your personal problems?																																					
stress3	table1-flip	In the last month, how often have you felt that things were not going your way?																																					
stress4	table1	In the last month, how often have you felt difficulties were piling up so high that you could not overcome them?																																					

Variable	rejection	Negative Social Exchnage - Rejection - MAP	Longitudinal
Description	Rejection -	This calculation represents the mean of three questions which ask the participant to rate frequency of scenarios in the past month where they experienced rejection. The higher the score, the more frequent the occurrence of rejection. This is part of the scale of Negative Social Exchange.	
	range: 1 to 5		
	table1		
	value	response	
	1	Never	
	2	Not very often	
	3	Sometimes	
	4	Often	
	5	Very often	
	variable	coding	question
	negat7	table1	In the past month, how often did the people that you know leave you out of activities that you would have enjoyed?
	negat8	table1	In the past month, how often did the people that you know forget or ignore you?
	negat9	table1	In the past month, how often did the people that you know fail to spend enough time with you?

Variable	unsympathetic	Negative Social Exchange - Unsympathetic - MAP	Longitudinal
Description	Unsympathetic -	This calculation represents the mean of three questions which ask the participant to rate frequency of scenarios in the past month where they experienced unsympathetic treatment. The higher the score, the higher the occurrence of unsympathetic treatment.	
	range: 1 to 5		
	table1		
	value	response	
	1	Never	
	2	Not very often	
	3	Sometimes	
	4	Often	
	5	Very often	
	variable	coding	question
	negat10	table1	In the past month, how often did the people that you know do things that were thoughtless or inconsiderate?
	negat11	table1	In the past month, how often did the people that you know act angry or upset with you?
	negat12	table1	In the past month, how often did the people that you know act unsympathetic or critical about a personal concern of yours?

Affect & Personality - Neuroticism

Variable	anxiety_10items Anxiety - 10 item version - ROS and MAP				Cross-sectional																																																												
References	<p>Negative affect and mortality in older persons. Wilson RS, Bienias JL, Mendes de Leon CF, Evans DA, Bennett DA Journal: American journal of epidemiology 2003 Nov 1; 158(9) 827-35</p> <p>Chronic distress, age-related neuropathology, and late-life dementia. Wilson RS, Arnold SE, Schneider JA, Li Y, Bennett DA Journal: Psychosomatic medicine 2007 Jan ; 69(1) 47-53</p>																																																																
Description	<p>Anxiety - 10 item version - ROS and MAP</p> <p>This variable is a measure of anxiety proneness. The participants are read a series of brief statements about anxious feelings; they responded 'yes' to statements that indicate how they generally feel and 'no' if otherwise. The higher the score, the more anxiety expressed.</p> <p>Range: 0-10</p> <table><tr><th>variable</th><th>ros</th><th>coding</th><th>calc</th><th>codebook question</th></tr><tr><td>map*</td><td></td><td></td><td></td><td></td></tr><tr><td>affect1</td><td>an1</td><td>Yes/No</td><td>No = +1</td><td>1. I feel pleasant</td></tr><tr><td>affect2</td><td>an2</td><td>Yes/No</td><td>Yes= +1</td><td>2. I feel nervous and restless</td></tr><tr><td>affect3</td><td>an4</td><td>Yes/No</td><td>Yes= +1</td><td>3. I wish I could be as happy as others seem to be</td></tr><tr><td>affect4</td><td>an8</td><td>Yes/No</td><td>Yes= +1</td><td>4. I feel that difficulties are piling up so that I cannot overcome them</td></tr><tr><td>affect5</td><td>an12</td><td>Yes/No</td><td>Yes= +1</td><td>5. I lack self confidence</td></tr><tr><td>affect6</td><td>an13</td><td>Yes/No</td><td>No = +1</td><td>6. I feel secure</td></tr><tr><td>affect7</td><td>an15</td><td>Yes/No</td><td>Yes= +1</td><td>7. I feel inadequate</td></tr><tr><td>affect8</td><td>an16</td><td>Yes/No</td><td>No = +1</td><td>8. I am content</td></tr><tr><td>affect9</td><td>an17</td><td>Yes/No</td><td>Yes= +1</td><td>9. Some unimportant thought runs through my mind and bothers me</td></tr><tr><td>affect10</td><td>an18</td><td>Yes/No</td><td>Yes= +1</td><td>10. I take disappointments so keenly that I can't put them out of my mind.</td></tr></table> <p>*map (questions derived from personality survey 1 -mp2pers)</p>					variable	ros	coding	calc	codebook question	map*					affect1	an1	Yes/No	No = +1	1. I feel pleasant	affect2	an2	Yes/No	Yes= +1	2. I feel nervous and restless	affect3	an4	Yes/No	Yes= +1	3. I wish I could be as happy as others seem to be	affect4	an8	Yes/No	Yes= +1	4. I feel that difficulties are piling up so that I cannot overcome them	affect5	an12	Yes/No	Yes= +1	5. I lack self confidence	affect6	an13	Yes/No	No = +1	6. I feel secure	affect7	an15	Yes/No	Yes= +1	7. I feel inadequate	affect8	an16	Yes/No	No = +1	8. I am content	affect9	an17	Yes/No	Yes= +1	9. Some unimportant thought runs through my mind and bothers me	affect10	an18	Yes/No	Yes= +1	10. I take disappointments so keenly that I can't put them out of my mind.
variable	ros	coding	calc	codebook question																																																													
map*																																																																	
affect1	an1	Yes/No	No = +1	1. I feel pleasant																																																													
affect2	an2	Yes/No	Yes= +1	2. I feel nervous and restless																																																													
affect3	an4	Yes/No	Yes= +1	3. I wish I could be as happy as others seem to be																																																													
affect4	an8	Yes/No	Yes= +1	4. I feel that difficulties are piling up so that I cannot overcome them																																																													
affect5	an12	Yes/No	Yes= +1	5. I lack self confidence																																																													
affect6	an13	Yes/No	No = +1	6. I feel secure																																																													
affect7	an15	Yes/No	Yes= +1	7. I feel inadequate																																																													
affect8	an16	Yes/No	No = +1	8. I am content																																																													
affect9	an17	Yes/No	Yes= +1	9. Some unimportant thought runs through my mind and bothers me																																																													
affect10	an18	Yes/No	Yes= +1	10. I take disappointments so keenly that I can't put them out of my mind.																																																													

Variable	neuroticism_12 Neuroticism - 12 item version - RMM				Cross-sectional																																																																																																									
References	<p>Personality and incident disability in older persons. Krueger KR, Wilson RS, Shah RC, Tang Y, Bennett DA Journal: Age and ageing 2006 Jul; 35(4) 428-33</p> <p>Neuroticism, extraversion, and mortality in a defined population of older persons. Wilson RS, Krueger KR, Gu L, Bienias JL, Mendes de Leon CF, Evans DA Journal: Psychosomatic medicine 2005 Nov-Dec; 67(6) 841-5</p>																																																																																																													
Description	<p>We administered the NEO Five-Factor Inventory to quantify neuroticism and 4 other traits that make up a widely accepted 5-trait model of personality. The inventory has 60 items, 12 for each trait. Persons rated agreement with each item on a 5-point scale. Item scores ranged from 0 to 4 and were summed to yield a total score for each trait that ranged from 0 to 48, with higher scores indicating more of a trait. Neuroticism (eg, "I often feel inferior to others") indicates proneness to experience psychological distress. The Cronbach coefficient alpha, an indicator of internal consistency reliability was 0.80 for neuroticism. These values are comparable to those reported in the normative cohort and indicate adequate levels of internal consistency. Neuroticism, an indicator of proneness to psychological distress.</p> <table><tr><td colspan="2">table 1</td><td></td><td></td><td></td></tr><tr><td>response number</td><td>response choice</td><td>value*</td><td colspan="2">flipped (f) value</td></tr><tr><td>1 =</td><td>Strongly disagree</td><td>0</td><td colspan="2">4</td></tr><tr><td>2 =</td><td>Disagree</td><td>1</td><td colspan="2">3</td></tr><tr><td>3 =</td><td>Neutral</td><td>2</td><td colspan="2">2</td></tr><tr><td>4 =</td><td>Agree</td><td>3</td><td colspan="2">1</td></tr><tr><td>5 =</td><td>Strongly Agree</td><td>4</td><td colspan="2">0</td></tr></table> <p>* value = (response number -1)</p> <p>Range: 0-48</p> <table><tr><td>variable</td><td></td><td></td><td></td><td></td></tr><tr><td>ros</td><td>map1*</td><td>mars</td><td>coding</td><td>question</td></tr><tr><td>per6</td><td>neo28inf</td><td>inferior</td><td>table1</td><td>I often feel inferior to others</td></tr><tr><td>per11</td><td>neo18str</td><td>tense</td><td>table1</td><td>When I'm under a great deal of stress, sometimes I feel like I'm going to pieces</td></tr><tr><td>per21</td><td>neo19jit</td><td>tense</td><td>table1</td><td>I often feel tense and jittery</td></tr><tr><td>per26</td><td>neo9wrth</td><td>neo9wrth</td><td>table1</td><td>Sometimes I feel completely worthless</td></tr><tr><td>per36</td><td>neo2ang</td><td>getangry</td><td>table1</td><td>I often get angry at the way people treat me</td></tr><tr><td>per41</td><td>neo45giv</td><td>discourg</td><td>table1</td><td>Too often, when things go wrong, I get discouraged and feel like giving up</td></tr><tr><td>per51</td><td>neo6help</td><td>helpless</td><td>table1</td><td>I often feel helpless and want someone else to solve my problems</td></tr><tr><td>per56</td><td>neo16ash</td><td>neo16ash</td><td>table1</td><td>At times I have been so ashamed I just wanted to hide.</td></tr><tr><td>per1</td><td>neolwor</td><td>worrier</td><td>table1(f)</td><td>I am not a worrier</td></tr><tr><td>per16</td><td>neo3lon</td><td>neo3lon</td><td>table1(f)</td><td>I rarely feel lonely or blue.</td></tr><tr><td>per31</td><td>neo13anx</td><td>neo13anx</td><td>table1(f)</td><td>I rarely feel fearful or anxious</td></tr><tr><td>per46</td><td>neo15sad</td><td>neo15sad</td><td>table1(f)</td><td>I am seldom sad or depressed</td></tr></table> <p>ros and mars - questions are collected at baseline.</p> <p>*map1 - These questions were asked via a personality survey that was completed mostly in years 2004,2005. Participants that were active, alive, and non-demented were given the survey, so only about 50% were collected at baseline. Approximately 20% were completed at follow-up 1, and 20% completed at follow-up 2.</p> <p>Ref: Costa PT, McCrae RR. Revised NEO Personality Inventory (NEO-PI-R) and NEO Five-Factor Inventory (NEO-FFI) Professional Manual. Odessa, FL: Psychological Assessment Resources; 1992.</p>					table 1					response number	response choice	value*	flipped (f) value		1 =	Strongly disagree	0	4		2 =	Disagree	1	3		3 =	Neutral	2	2		4 =	Agree	3	1		5 =	Strongly Agree	4	0		variable					ros	map1*	mars	coding	question	per6	neo28inf	inferior	table1	I often feel inferior to others	per11	neo18str	tense	table1	When I'm under a great deal of stress, sometimes I feel like I'm going to pieces	per21	neo19jit	tense	table1	I often feel tense and jittery	per26	neo9wrth	neo9wrth	table1	Sometimes I feel completely worthless	per36	neo2ang	getangry	table1	I often get angry at the way people treat me	per41	neo45giv	discourg	table1	Too often, when things go wrong, I get discouraged and feel like giving up	per51	neo6help	helpless	table1	I often feel helpless and want someone else to solve my problems	per56	neo16ash	neo16ash	table1	At times I have been so ashamed I just wanted to hide.	per1	neolwor	worrier	table1(f)	I am not a worrier	per16	neo3lon	neo3lon	table1(f)	I rarely feel lonely or blue.	per31	neo13anx	neo13anx	table1(f)	I rarely feel fearful or anxious	per46	neo15sad	neo15sad	table1(f)	I am seldom sad or depressed
table 1																																																																																																														
response number	response choice	value*	flipped (f) value																																																																																																											
1 =	Strongly disagree	0	4																																																																																																											
2 =	Disagree	1	3																																																																																																											
3 =	Neutral	2	2																																																																																																											
4 =	Agree	3	1																																																																																																											
5 =	Strongly Agree	4	0																																																																																																											
variable																																																																																																														
ros	map1*	mars	coding	question																																																																																																										
per6	neo28inf	inferior	table1	I often feel inferior to others																																																																																																										
per11	neo18str	tense	table1	When I'm under a great deal of stress, sometimes I feel like I'm going to pieces																																																																																																										
per21	neo19jit	tense	table1	I often feel tense and jittery																																																																																																										
per26	neo9wrth	neo9wrth	table1	Sometimes I feel completely worthless																																																																																																										
per36	neo2ang	getangry	table1	I often get angry at the way people treat me																																																																																																										
per41	neo45giv	discourg	table1	Too often, when things go wrong, I get discouraged and feel like giving up																																																																																																										
per51	neo6help	helpless	table1	I often feel helpless and want someone else to solve my problems																																																																																																										
per56	neo16ash	neo16ash	table1	At times I have been so ashamed I just wanted to hide.																																																																																																										
per1	neolwor	worrier	table1(f)	I am not a worrier																																																																																																										
per16	neo3lon	neo3lon	table1(f)	I rarely feel lonely or blue.																																																																																																										
per31	neo13anx	neo13anx	table1(f)	I rarely feel fearful or anxious																																																																																																										
per46	neo15sad	neo15sad	table1(f)	I am seldom sad or depressed																																																																																																										

Variable	neuroticism_6	Neuroticism - 6 item version - RMM	Cross-sectional
References	<p>Neuroticism, Extraversion, and Motor Function in Community-Dwelling Older Persons. Buchman AS, Boyle PA, Wilson RS, Leurgans SE, Arnold SE, Bennett DA Journal: The American journal of geriatric psychiatry : official journal of the American Association for Geriatric Psychiatry 2012 Jan 10 ; 78(5) 334-41</p> <p>Neuroticism, extraversion, and mortality in a defined population of older persons. Wilson RS, Krueger KR, Gu L, Bienias JL, Mendes de Leon CF, Evans DA Journal: Psychosomatic medicine 2005 Nov-Dec; 67(6) 841-5</p>		
Description	<p>Neuroticism_6 used in ROS, MAP, and MARS, is an indicator of proneness to psychological distress.</p> <p>neuroticism_6 calculation has the greatest overlap of the 3 main projects: ROS, MAP, and MARS.</p> <p>MAP added the neuroticism questions a few years after the study had begun. We went back and attempted to collect the questionnaire on as many in vivo participants as we could. There are some participants that will be missing the larger scale versions (neuroticism_12 and neuroticism_48) while having the 6 item scale only.</p> <p>range: 0-24</p> <pre> table 1 response response number choice value* flipped (f) 1 = Strongly disagree 0 4 2 = Disagree 1 3 3 = Neutral 2 2 4 = Agree 3 1 5 = Strongly Agree 4 0 * value = (response number -1) -----variable----- ros map1* map2* mars coding question ----- per1 worrier neolwor worrier table1(f) I am not a worrier per6 inferior neo28inf inferior table1 I often feel inferior to others per21 tense neo19jit tense table1 I often feel tense and jittery per36 getangry neo2ang getangry table1 I often get angry at the way people treat me per41 discourg neo45giv discourg table1 Too often, when things go wrong, I get discouraged and feel like giving up per51 helpless neo6help helpless table1 I often feel helpless and want someone else to solve my problems ros and mars - questions are collected at baseline *map1 - These questions added to baseline interview in 2001. Some participants in study (n ~ 200) did not receive these questions at baseline, most enrolled before 2001 . *map2 - These questions were asked via a personality survey that was completed mostly in years 2004,2005. Participants that were active, alive, and non-demented were given the survey. Some participants received both map1 and map2. In this case, we used the questions from baseline interview. Ref: Costa PT, McCrae RR. Revised NEO Personality Inventory (NEO-PI-R) and NEO Five-Factor Inventory (NEO-FFI) Professional Manual. Odessa, FL: Psychological Assessment Resources; 1992. </pre>		

Clinical Diagnosis(count: 3)

Variable	dcfdx	Clinical Dx Summary	Longitudinal
Other Forms	_I, _Iv, _bl		
Description	<p>Clinical Dx by cycle</p> <pre> value coding 1 NCI - No cognitive impairment 2 MCI - Mild cognitive impairment 3 MCI+ - Mild cognitive impairment and other Dx 4 AD - Alzheimer's disease 5 AD+ - Alzheimer's disease and other Dx 6 Other - Other Dx Other Unknown </pre>		

Clinical Diagnosis - Dementia

Variable	dementia	Dementia Diagnosis	Longitudinal															
Other Forms	_l, _lv, _bl																	
References	<p>Mixed brain pathologies account for most dementia cases in community-dwelling older persons. Nandigam RN Journal: Neurology 2008 Mar 4; 70(10) 816; author reply 81</p> <p>Family history of dementia is a risk factor for Lewy body disease. Woodruff BK, Graff-Radford NR, Ferman TJ, Dickson DW, DeLucia MW, Crook JE, Arvanitakis Z, Brassler S, Waters C, Barker W, Duara R Journal: Neurology 2006 Jun 27; 66(12) 1949-50</p>																	
Description	<p>Dementia Dx (see r_dement variable)</p> <p>0 = no dementia present (possible or not present) 1 = dementia present (highly probable or probable)</p> <p>Through review of self report questions, neurological exam (when available), cognitive testing, and interview of participant, clinician renders a diagnosis. The clinician is first presented with algorithmic diagnosis and has the ability to modify if necessary.</p> <table><tr><td>Dementia Dx</td><td>value</td><td>coding</td></tr><tr><td>dementia</td><td>1</td><td>Highly Probable</td></tr><tr><td>dementia</td><td>2</td><td>Probable</td></tr></table> <p>-----</p> <table><tr><td>no dementia</td><td>3</td><td>Possible</td></tr><tr><td>no dementia</td><td>4</td><td>Not Present</td></tr></table>			Dementia Dx	value	coding	dementia	1	Highly Probable	dementia	2	Probable	no dementia	3	Possible	no dementia	4	Not Present
Dementia Dx	value	coding																
dementia	1	Highly Probable																
dementia	2	Probable																
no dementia	3	Possible																
no dementia	4	Not Present																

Clinical Diagnosis - Stroke

Variable	r_stroke	Clinical Stroke Dx	Longitudinal										
Other Forms	_l, _lv, _bl												
References	<p>Secular trends in stroke incidence and survival, and the occurrence of dementia.</p> <p>Bennett DA</p> <p>Journal: Stroke; a journal of cerebral circulation 2006 May; 37(5) 1144-5</p>												
Description	<p>Clinical Stroke Dx</p> <p>Through review of self report questions, neurological exam (when available), cognitive testing, and interview of participant, clinician renders a diagnosis. The clinician is first presented with algorithmic diagnosis and has the ability to modify if necessary.</p> <table><tr><td>value</td><td>coding</td></tr><tr><td>1</td><td>Highly Probable</td></tr><tr><td>2</td><td>Probable</td></tr><tr><td>3</td><td>Possible</td></tr><tr><td>4</td><td>Not Present</td></tr></table>			value	coding	1	Highly Probable	2	Probable	3	Possible	4	Not Present
value	coding												
1	Highly Probable												
2	Probable												
3	Possible												
4	Not Present												

Cognitive(count: 28)**Cognitive - Domains**

Variable	cogn_ep	Calculated Domain Score - Episodic Memory	Longitudinal																								
Other Forms	_I, _Iv, _bl																										
Description	<p>Episodic Memory Domain</p> <p>We formed a composite measure of episodic memory by converting raw scores on each test to z scores, using the mean and standard deviation from the full cohort, and then averaging the z scores to yield the composite.</p> <p>Composite score of the following 7 instruments -</p> <table><tr><th>test score</th><th>z-score</th><th>cognitive test</th></tr><tr><td>cts_wli</td><td>z_WLI</td><td>word list</td></tr><tr><td>cts_wlii</td><td>z_WLII</td><td>word list recall</td></tr><tr><td>cts_wliii</td><td>z_WLIII</td><td>word list recognition</td></tr><tr><td>cts_ebmt</td><td>z_EBMT</td><td>East Boston immediate recall</td></tr><tr><td>cts_ebdr</td><td>z_EBDR</td><td>East Boston delayed recall</td></tr><tr><td>cts_story</td><td>z_Story</td><td>Logical memory I (immediate recall)</td></tr><tr><td>cts_delay</td><td>z_Delay</td><td>Logical memory II (delayed recall)</td></tr></table> <p>Neuropsychiatry Neuropsychol Behav Neurol. 1998 Oct;11(4):184-90. Structural correlates of cognitive deficits in a selected group of patients with Alzheimer's disease. Caramelli P, Robitaille Y, Laroche-Cholette A, Nitrini R, Gauvreau D, Joannette Y, Lecours AR. Source Research Center, Geriatric Institute, University of Montréal, Quebec, Canada.</p>			test score	z-score	cognitive test	cts_wli	z_WLI	word list	cts_wlii	z_WLII	word list recall	cts_wliii	z_WLIII	word list recognition	cts_ebmt	z_EBMT	East Boston immediate recall	cts_ebdr	z_EBDR	East Boston delayed recall	cts_story	z_Story	Logical memory I (immediate recall)	cts_delay	z_Delay	Logical memory II (delayed recall)
test score	z-score	cognitive test																									
cts_wli	z_WLI	word list																									
cts_wlii	z_WLII	word list recall																									
cts_wliii	z_WLIII	word list recognition																									
cts_ebmt	z_EBMT	East Boston immediate recall																									
cts_ebdr	z_EBDR	East Boston delayed recall																									
cts_story	z_Story	Logical memory I (immediate recall)																									
cts_delay	z_Delay	Logical memory II (delayed recall)																									

Variable	cogn_global	Global cognitive score	Longitudinal	
Other Forms	_I, _Iv, _bl			
Description	Cogn_global is the main variable for overall (i.e. global) cognitive function. Raw scores from the tests were converted to Z scores and averaged to yield a glob cog summary. Mean and standard deviation at baseline were used to compute the z-scores. Z-score has mean 0 and standard deviation of 1. Each z-score corresponds to a point in a normal distribution. z-score describes how much a point deviates from a mean or specific point. A negative z-score simply means that someone has an overall score that is lower than the average of the entire cohort at baseline. The following 19 tests are used to compute the global score			
	1 test score	z-score	cognitive test	calculated domain
	2 cts_wli	z_WLI	word list	episodic memory(cogn_ep)
	3 cts_wlii	z_WLII	word list recall	episodic memory(cogn_ep)
	4 cts_wliii	z_WLIII	word list recognition	episodic memory(cogn_ep)
	5 cts_ebmt	z_EBMT	East Boston immediate recall	episodic memory(cogn_ep)
	6 cts_ebdr	z_EBDR	East Boston delayed recall	episodic memory(cogn_ep)
	7 cts_story	z_Story	Logical memory I (immediate)	episodic memory(cogn_ep)
	8 cts_delay	z_Delay	Logical memory II (delayed)	episodic memory(cogn_ep)
	9 cts_bname	z_BName	Boston naming (15 items)	semantic memory(cogn_se)
	10 cts_catflu	z_CatFlu	category fluency	semantic memory(cogn_se)
	11 cts_read_nart	z_read_nart	reading test - (10 items)	semantic memory(cogn_se)
	12 cts_df	z_DF	digits forward	working memory(cogn_wo)
	13 cts_db	z_DB	digits backward	working memory(cogn_wo)
	14 cts_doperf	z_DOperf	digit ordering	working memory(cogn_wo)
	15 cts_lopair	z_LOpair	line orientation	perceptual
	16 orientation(cogn_po)			
	17 cts_pmat	z_PMat	progressive matrices (16 items)	perceptual
	18 orientation(cogn_po)			
	19 cts_sdmt	z_SDMT	symbol digits modality-oral	perceptual speed(cogn_ps)
	20 cts_nccrtd	z_NCcrt	number comparison	perceptual speed(cogn_ps)
	21 cts_stroop_cname	z_cname	stroop color naming	perceptual speed(cogn_ps)
	22 cts_stroop_wread	z_wread	stroop word reading	perceptual speed(cogn_ps)

Variable	cogn_po	Calculated Domain Score - Perceptual Orientation	Longitudinal									
Other Forms	_I, _Iv, _bl											
Description	<p>Perceptual Orientation Domain</p> <p>We formed a composite measure of visuospatial ability memory by converting raw scores on each test to z scores, using the mean and standard deviation from the full cohort, and then averaging the z scores to yield the composite.</p> <p>Composite score of the following instruments -</p> <table><tr><td>test score</td><td>z-score</td><td>cognitive test</td></tr><tr><td>cts_lopair</td><td>z_LOpair</td><td>line orientation</td></tr><tr><td>cts_pmat</td><td>z_PMat</td><td>progressive matrices (16 items)</td></tr></table> <p>Neuropsychiatry Neuropsychol Behav Neurol. 1998 Oct;11(4):184-90. Structural correlates of cognitive deficits in a selected group of patients with Alzheimer's disease. Caramelli P, Robitaille Y, Laroche-Cholette A, Nitrini R, Gauvreau D, Joannette Y, Lecours AR. SourceResearch Center, Geriatric Institute, University of Montréal, Quebec, Canada.</p>			test score	z-score	cognitive test	cts_lopair	z_LOpair	line orientation	cts_pmat	z_PMat	progressive matrices (16 items)
test score	z-score	cognitive test										
cts_lopair	z_LOpair	line orientation										
cts_pmat	z_PMat	progressive matrices (16 items)										

Variable	cogn_ps	Calculated Domain Score - Perceptual Speed	Longitudinal
Other Forms	_I, _Iv, _bl		
Description	Perceptual Speed Domain		
We formed a composite measure of perceptual speed by converting raw scores on each test to z scores, using the mean and standard deviation from the full cohort, and then averaging the z scores to yield the composite.			
Composite score of the following instruments -			
test score	z-score	cognitive test	
cts_sdm	z_SDMT	symbol digits modality test (oral)	
cts_ncrtd	z_NCrtd	number comparison	
cts_stroop_cname	z_cname	stroop color naming	
cts_stroop_wread	z_wread	stroop word reading	
Neuropsychiatry Neuropsychol Behav Neurol. 1998 Oct;11(4):184-90. Structural correlates of cognitive deficits in a selected group of patients with Alzheimer's disease. Caramelli P, Robitaille Y, Laroche-Cholette A, Nitrini R, Gauvreau D, Joannette Y, Lecours AR. SourceResearch Center, Geriatric Institute, University of Montréal, Quebec, Canada.			

Variable	cogn_se	Calculated Domain Score - Semantic Memory	Longitudinal
Other Forms	_I, _Iv, _bl		
Description	Semantic Memory Domain		
	We formed a composite measure of semantic memory by converting raw scores on each test to z scores, using the mean and standard deviation from the full cohort, and then averaging the z scores to yield the composite.		
	Composite score of the following instruments		
	test score	z-score	cognitive test
	cts_bname	z_BName	Boston naming (15 items)
	cts_catflu	z_CatFlu	category fluency (animals - fruits/vegetables)
	cts_read_nart	z_read_nart	reading test - (10 items)
	Neuropsychiatry Neuropsychol Behav Neurol. 1998 Oct;11(4):184-90. Structural correlates of cognitive deficits in a selected group of patients with Alzheimer's disease. Caramelli P, Robitaille Y, Laroche-Cholette A, Nitrini R, Gauvreau D, Joannette Y, Lecours AR. SourceResearch Center, Geriatric Institute, University of Montréal, Quebec, Canada.		

Variable	cogn_wo	Calculated Domain Score - Working Memory	Longitudinal
Other Forms	_I, _IV, _bl		
Description	Working Memory Domain		
	We formed a composite measure of working memory by converting raw scores on each test to z scores, using the mean and standard deviation from the full cohort, and then averaging the z scores to yield the composite.		
	Composite score of the following instruments -		
	test score	z-score	cognitive test
	cts_df	z_DF	digits forward
	cts_db	z_DB	digits backward
	cts_doperf	z_DOperf	digit ordering
	Neuropsychiatry Neuropsychol Behav Neurol. 1998 Oct;11(4):184-90. Structural correlates of cognitive deficits in a selected group of patients with Alzheimer's disease. Caramelli P, Robitaille Y, Laroche-Cholette A, Nitrini R, Gauvreau D, Joannette Y, Lecours AR. SourceResearch Center, Geriatric Institute, University of Montréal, Quebec, Canada.		

Cognitive - Test Scores

Variable	animals	Category fluency-animals	Longitudinal
Description	<p>This is a measure of verbal fluency or semantic memory in which participant is asked to generate exemplars from that category animals in successive 1 minute trials. The primary performance measure is the number of unique exemplars generated. Similar measures have been shown to be impaired in Alzheimer's disease .</p> <p>Scoring: The total number of animals named is recorded. Repetitions are omitted.</p> <p>Range: 0-75 animals named 98 = REFUSAL 99 = DON'T KNOW</p>		

Variable	cts_bname	Boston Naming - 2014	Longitudinal
Description	SUMMARY: BOSTON NAMING, NUMBER OF ITEMS CORRECT		
	This test is used in the calculation of semantic memory domain (cogn_se).		
	This measure of visual confrontation naming, from the widely used Boston Naming Test, include 15 items from the CERAD version of the test. Participants are shown pictures of certain objects. Then they are requested to name the objects. The primary measure of performance is the number of pictures correctly named.		
	Short term temporal stability and internal consistency of the CERAD version are excellent. Longitudinal change in visual naming in Alzheimer's disease has been previously demonstrated.		
	The Boston Naming Test (BNT) represents a measure of object naming from line drawings. Items have been rank ordered in terms of their ability to be named, which is thought to be correlated with their frequency. This type of picture-naming vocabulary test is useful in the examination of children with learning disabilities and the evaluation of brain-injured adults.		
	Ref: Weintraub, S., The Psychological Corporation.		
	Range: 00 - 15		
	variable	coding	question
	tree	0-error/1-correct	1. Tree
	bed	0-error/1-correct	2. Bed
whistle	0-error/1-correct	3. Whistle	
flower	0-error/1-correct	4. Flower	
house	0-error/1-correct	5. House	
canoe	0-error/1-correct	6. Canoe	
toothbr	0-error/1-correct	7. Toothbrush	
volcano	0-error/1-correct	8. Volcano	
mask	0-error/1-correct	9. Mask	
camel	0-error/1-correct	10. Camel	
harmon	0-error/1-correct	11. Harmonica	
tongs	0-error/1-correct	12. Tongs	
hammock	0-error/1-correct	13. Hammock	
funnel	0-error/1-correct	14. Funnel	
domino	0-error/1-correct	15. Domino	

Variable	cts_catflu	Category Fluency - 2014	Longitudinal
Description	<p>Category Fluency</p> <p>Participant is given a category and asked to generate as many words as possible in 60 seconds. This score represents the summation of the verbal fluency categories, animals and fruits/vegetables. If one of the component scores is missing, then we multiply the remaining valid score by 2.</p> <p>This test is used in the calculation of semantic memory domain (cogn_se).</p> <p>CATEGORY FLUENCY [cts_animals] Label: animals Range: 0 to 75</p> <p>CATEGORY FLUENCY [cts_fruits] Label: fruits Range: 0 to 75</p>		

Variable	cts_db	Digits Backwards - 2014	Longitudinal																																																				
Description	<p>SUMMARY: DIGITS BACKWARD, TOTAL CORRECT</p> <p>This test is used in the calculation of working memory domain (cogn_wo).</p> <p>This measure of attention is from the Wechsler Memory Scale - Revised. A series of number sequences of increasing length are read out to the participants. Participants are requested to repeat the numbers backwards. The performance measure are the number of digit sequences correctly recalled. The psychometric properties are well documented. It has been used in prior epidemiologic and longitudinal studies of Alzheimer's disease.</p> <p>Note: this is one of two forms of Digit Span. (ADAMS uses another form). Digits provided to the test taker spans from the length of 2 to 7. Testing stops if neither string of a given length is reversed correctly.</p> <p>Range: 00 - 12</p> <table> <tr> <th>variable</th><th>coding</th><th>question</th><th>answer key</th></tr> <tr> <td>digbak1a</td><td>0-error/1-correct</td><td>1a. 5-1?</td><td>15</td></tr> <tr> <td>digbak1b</td><td>0-error/1-correct</td><td>1b. 3-8?</td><td>83</td></tr> <tr> <td>digbak2a</td><td>0-error/1-correct</td><td>2a. 4-9-3?</td><td>394</td></tr> <tr> <td>digbak2b</td><td>0-error/1-correct</td><td>2b. 5-2-6?</td><td>625</td></tr> <tr> <td>digbak3a</td><td>0-error/1-correct</td><td>3a. 3-8-1-4?</td><td>4183</td></tr> <tr> <td>digbak3b</td><td>0-error/1-correct</td><td>3b. 1-7-9-5?</td><td>5971</td></tr> <tr> <td>digbak4a</td><td>0-error/1-correct</td><td>4a. 6-2-9-7-2?</td><td>27926</td></tr> <tr> <td>digbak4b</td><td>0-error/1-correct</td><td>4b. 4-8-5-2-7?</td><td>72584</td></tr> <tr> <td>digbak5a</td><td>0-error/1-correct</td><td>5a. 7-1-5-2-8-6?</td><td>682517</td></tr> <tr> <td>digbak5b</td><td>0-error/1-correct</td><td>5b. 8-3-1-9-6-4?</td><td>469138</td></tr> <tr> <td>digbak6a</td><td>0-error/1-correct</td><td>6a. 4-7-3-9-1-2-8?</td><td>8219374</td></tr> <tr> <td>digbak6b</td><td>0-error/1-correct</td><td>6b. 8-1-2-9-3-6-5?</td><td>5639218</td></tr> </table>			variable	coding	question	answer key	digbak1a	0-error/1-correct	1a. 5-1?	15	digbak1b	0-error/1-correct	1b. 3-8?	83	digbak2a	0-error/1-correct	2a. 4-9-3?	394	digbak2b	0-error/1-correct	2b. 5-2-6?	625	digbak3a	0-error/1-correct	3a. 3-8-1-4?	4183	digbak3b	0-error/1-correct	3b. 1-7-9-5?	5971	digbak4a	0-error/1-correct	4a. 6-2-9-7-2?	27926	digbak4b	0-error/1-correct	4b. 4-8-5-2-7?	72584	digbak5a	0-error/1-correct	5a. 7-1-5-2-8-6?	682517	digbak5b	0-error/1-correct	5b. 8-3-1-9-6-4?	469138	digbak6a	0-error/1-correct	6a. 4-7-3-9-1-2-8?	8219374	digbak6b	0-error/1-correct	6b. 8-1-2-9-3-6-5?	5639218
variable	coding	question	answer key																																																				
digbak1a	0-error/1-correct	1a. 5-1?	15																																																				
digbak1b	0-error/1-correct	1b. 3-8?	83																																																				
digbak2a	0-error/1-correct	2a. 4-9-3?	394																																																				
digbak2b	0-error/1-correct	2b. 5-2-6?	625																																																				
digbak3a	0-error/1-correct	3a. 3-8-1-4?	4183																																																				
digbak3b	0-error/1-correct	3b. 1-7-9-5?	5971																																																				
digbak4a	0-error/1-correct	4a. 6-2-9-7-2?	27926																																																				
digbak4b	0-error/1-correct	4b. 4-8-5-2-7?	72584																																																				
digbak5a	0-error/1-correct	5a. 7-1-5-2-8-6?	682517																																																				
digbak5b	0-error/1-correct	5b. 8-3-1-9-6-4?	469138																																																				
digbak6a	0-error/1-correct	6a. 4-7-3-9-1-2-8?	8219374																																																				
digbak6b	0-error/1-correct	6b. 8-1-2-9-3-6-5?	5639218																																																				

Variable	cts_delay	Logical Memory IIa - 2014	Longitudinal
Description	<p>Logical Memory IIa - delayed recall.</p> <p>This is a measure from the Wechsler Memory Scale - Revised, 1987, in which a brief story is read to the participants. Then the participant is asked to retell it from memory after 30 mins (IIa). The performance measure is the number of story unites recalled (out of 25) following the delay. The tests inter rated reliability and short term temporal stability are excellent . It has been used in epidemiological and numerous clinical studies of Alzheimer's disease.</p> <p>This test is used in the calculation of episodic memory domain (cogn_ep).</p> <p>Range: 00 to 25.</p>		

Variable	cts_df	Digits Forwards - 2014		Longitudinal																																																				
Description	<p>Digits Forward</p> <p>This test is used in the calculation of working memory domain (cogn_wo).</p> <p>A series of numbers are read out to the participants. Participants are requested to repeat the numbers forward. There are 6 pairs of strings of digits of a given length (each pair is one longer than the one before). The primary measure of performance is the number of digit sequences correctly recalled in each subpart (digits forward and backward). Testing stops if neither string of a given length is repeated correctly.</p> <p>Range: 00 - 12</p> <table><tr><th>variable</th><th>coding</th><th>question</th><th>answer key</th></tr><tr><td>digFor1a</td><td>0-error/1-correct</td><td>1a. 6-2-9?</td><td>629</td></tr><tr><td>digFor1b</td><td>0-error/1-correct</td><td>1b. 3-7-5?</td><td>375</td></tr><tr><td>digFor2a</td><td>0-error/1-correct</td><td>2a. 5-4-1-7?</td><td>5417</td></tr><tr><td>digFor2b</td><td>0-error/1-correct</td><td>2b. 8-3-9-6?</td><td>8396</td></tr><tr><td>digFor3a</td><td>0-error/1-correct</td><td>3a. 3-6-9-2-5?</td><td>36925</td></tr><tr><td>digFor3b</td><td>0-error/1-correct</td><td>3b. 6-9-4-7-1?</td><td>69471</td></tr><tr><td>digFor4a</td><td>0-error/1-correct</td><td>4a. 9-1-8-4-2-7?</td><td>918427</td></tr><tr><td>digFor4b</td><td>0-error/1-correct</td><td>4b. 6-3-5-4-8-2?</td><td>635482</td></tr><tr><td>digFor5a</td><td>0-error/1-correct</td><td>5a. 1-2-8-5-3-4-6?</td><td>1285346</td></tr><tr><td>digFor5b</td><td>0-error/1-correct</td><td>5b. 2-8-1-4-9-7-5?</td><td>2814975</td></tr><tr><td>digFor6a</td><td>0-error/1-correct</td><td>6a. 3-8-2-9-5-1-7-4?</td><td>38295174</td></tr><tr><td>digFor6b</td><td>0-error/1-correct</td><td>6b. 5-9-1-8-2-6-4-7?</td><td>59182647</td></tr></table>				variable	coding	question	answer key	digFor1a	0-error/1-correct	1a. 6-2-9?	629	digFor1b	0-error/1-correct	1b. 3-7-5?	375	digFor2a	0-error/1-correct	2a. 5-4-1-7?	5417	digFor2b	0-error/1-correct	2b. 8-3-9-6?	8396	digFor3a	0-error/1-correct	3a. 3-6-9-2-5?	36925	digFor3b	0-error/1-correct	3b. 6-9-4-7-1?	69471	digFor4a	0-error/1-correct	4a. 9-1-8-4-2-7?	918427	digFor4b	0-error/1-correct	4b. 6-3-5-4-8-2?	635482	digFor5a	0-error/1-correct	5a. 1-2-8-5-3-4-6?	1285346	digFor5b	0-error/1-correct	5b. 2-8-1-4-9-7-5?	2814975	digFor6a	0-error/1-correct	6a. 3-8-2-9-5-1-7-4?	38295174	digFor6b	0-error/1-correct	6b. 5-9-1-8-2-6-4-7?	59182647
variable	coding	question	answer key																																																					
digFor1a	0-error/1-correct	1a. 6-2-9?	629																																																					
digFor1b	0-error/1-correct	1b. 3-7-5?	375																																																					
digFor2a	0-error/1-correct	2a. 5-4-1-7?	5417																																																					
digFor2b	0-error/1-correct	2b. 8-3-9-6?	8396																																																					
digFor3a	0-error/1-correct	3a. 3-6-9-2-5?	36925																																																					
digFor3b	0-error/1-correct	3b. 6-9-4-7-1?	69471																																																					
digFor4a	0-error/1-correct	4a. 9-1-8-4-2-7?	918427																																																					
digFor4b	0-error/1-correct	4b. 6-3-5-4-8-2?	635482																																																					
digFor5a	0-error/1-correct	5a. 1-2-8-5-3-4-6?	1285346																																																					
digFor5b	0-error/1-correct	5b. 2-8-1-4-9-7-5?	2814975																																																					
digFor6a	0-error/1-correct	6a. 3-8-2-9-5-1-7-4?	38295174																																																					
digFor6b	0-error/1-correct	6b. 5-9-1-8-2-6-4-7?	59182647																																																					

Variable	cts_doperf	Digit Ordering - 2014		Longitudinal
Description	DIGIT ORDERING			
This test is used in the calculation of working memory domain (cogn_wo).				
A series of numbers are read aloud to the participants. One series at a time. After each series, participants are requested repeat the series starting with the smallest number and going to the largest number. Each correct answer is scored. The test is administered from 2 to 8 digit length pairs. If both pairs of a certain length are not ordered properly, testing stops.				
Range: 00 - 14				
variable	coding	question	answer key	
item1	0-error/1-correct	1. 4-1?	14	
item2	0-error/1-correct	2. 9-8?	89	
item3	0-error/1-correct	3. 1-0-4?	014	
item4	0-error/1-correct	4. 2-6-3?	236	
item5	0-error/1-correct	5. 2-4-1-3?	1234	
item6	0-error/1-correct	6. 4-2-1-6?	1246	
item7	0-error/1-correct	7. 3-7-5-7-0?	03577	
item8	0-error/1-correct	8. 7-9-2-1-0?	01279	
item9	0-error/1-correct	9. 9-5-6-2-7-2?	225679	
item10	0-error/1-correct	10. 9-6-3-0-1-9?	013699	
item11	0-error/1-correct	11. 8-9-5-7-9-1-4?	1457899	
item12	0-error/1-correct	12. 8-5-4-7-5-3-6?	3455678	
item13	0-error/1-correct	13. 2-8-9-1-8-6-9-5?	12568899	
item14	0-error/1-correct	14. 6-3-5-3-4-0-9-6?	03345669	

Variable	cts_ebdr	East Boston Story - delayed recall - 2014	Longitudinal																																							
Description	<p>East Boston Memory Test (Delayed Recall)</p> <p>This test was used in the East Boston studies of cognitive function A three sentence story is read to the participant. There are two performance measures: number of story units recalled (out of 12) immediately (see cts_ebmt) and after a distractor-filled delay of approximately 3 minutes. Each item recalled correctly(present in recalled version) is scored.</p> <p>This test is used in the calculation of episodic memory domain (cogn_ep).</p> <p>Range: 00 - 12</p> <table><tr><th>variable</th><th>coding</th><th>question</th></tr><tr><td>q1ebdr</td><td>1-present/0-absent/7-defer</td><td>1. Three</td></tr><tr><td>q2ebdr</td><td>1-present/0-absent/7-defer</td><td>2. Children</td></tr><tr><td>q3ebdr</td><td>1-present/0-absent/7-defer</td><td>3. House</td></tr><tr><td>q4ebdr</td><td>1-present/0-absent/7-defer</td><td>4. On fire</td></tr><tr><td>q5ebdr</td><td>1-present/0-absent/7-defer</td><td>5. Fireman</td></tr><tr><td>q6ebdr</td><td>1-present/0-absent/7-defer</td><td>6. Climbed in</td></tr><tr><td>q7ebdr</td><td>1-present/0-absent/7-defer</td><td>7. Children</td></tr><tr><td>q8ebdr</td><td>1-present/0-absent/7-defer</td><td>8. Rescued</td></tr><tr><td>q9ebdr</td><td>1-present/0-absent/7-defer</td><td>9. Minor</td></tr><tr><td>q10ebdr</td><td>1-present/0-absent/7-defer</td><td>10. Injuries</td></tr><tr><td>q11ebdr</td><td>1-present/0-absent/7-defer</td><td>11. Everyone</td></tr><tr><td>q12ebdr</td><td>1-present/0-absent/7-defer</td><td>12. Well</td></tr></table>			variable	coding	question	q1ebdr	1-present/0-absent/7-defer	1. Three	q2ebdr	1-present/0-absent/7-defer	2. Children	q3ebdr	1-present/0-absent/7-defer	3. House	q4ebdr	1-present/0-absent/7-defer	4. On fire	q5ebdr	1-present/0-absent/7-defer	5. Fireman	q6ebdr	1-present/0-absent/7-defer	6. Climbed in	q7ebdr	1-present/0-absent/7-defer	7. Children	q8ebdr	1-present/0-absent/7-defer	8. Rescued	q9ebdr	1-present/0-absent/7-defer	9. Minor	q10ebdr	1-present/0-absent/7-defer	10. Injuries	q11ebdr	1-present/0-absent/7-defer	11. Everyone	q12ebdr	1-present/0-absent/7-defer	12. Well
variable	coding	question																																								
q1ebdr	1-present/0-absent/7-defer	1. Three																																								
q2ebdr	1-present/0-absent/7-defer	2. Children																																								
q3ebdr	1-present/0-absent/7-defer	3. House																																								
q4ebdr	1-present/0-absent/7-defer	4. On fire																																								
q5ebdr	1-present/0-absent/7-defer	5. Fireman																																								
q6ebdr	1-present/0-absent/7-defer	6. Climbed in																																								
q7ebdr	1-present/0-absent/7-defer	7. Children																																								
q8ebdr	1-present/0-absent/7-defer	8. Rescued																																								
q9ebdr	1-present/0-absent/7-defer	9. Minor																																								
q10ebdr	1-present/0-absent/7-defer	10. Injuries																																								
q11ebdr	1-present/0-absent/7-defer	11. Everyone																																								
q12ebdr	1-present/0-absent/7-defer	12. Well																																								

Variable	cts_ebmt	East Boston Story - immediate - 2014	Longitudinal
Description	EAST Boston Memory Test (Immediate Recall)		
	<p>This test was used in the East Boston studies of cognitive function. A three sentence story is read to the participant. There are two performance measures: number of story units recalled (out of 12) immediately and after a distractor-filled delay of approximately 3 minutes (see cts_ebdr). Each item recalled correctly (present in recalled version) is scored.</p> <p>This test is used in the calculation of episodic memory domain (cogn_ep).</p> <p>Range: 00 - 12</p>		
	variable	coding	question
	q1ebmt	1-present/0-absent/7-defer	1. Three
	q2ebmt	1-present/0-absent/7-defer	2. Children
	q3ebmt	1-present/0-absent/7-defer	3. House
	q4ebmt	1-present/0-absent/7-defer	4. On fire
	q5ebmt	1-present/0-absent/7-defer	5. Fireman
	q6ebmt	1-present/0-absent/7-defer	6. Climbed in
	q7ebmt	1-present/0-absent/7-defer	7. Children
	q8ebmt	1-present/0-absent/7-defer	8. Rescued
	q9ebmt	1-present/0-absent/7-defer	9. Minor
	q10ebmt	1-present/0-absent/7-defer	10. Injuries
	q11ebmt	1-present/0-absent/7-defer	11. Everyone
	q12ebmt	1-present/0-absent/7-defer	12. Well

Variable

cts_idea

Complex Ideas - 2014

Longitudinal

Description

Score, Complex Ideational Material, a tests of auditory comprehension. This is a measure of verbal comprehension from the Boston Diagnostic aphasic Examination. The first eight items are used. Each item is a simple question read aloud to the participant. The participant is requested to answer with a `yes` or `no`.

For all variables below, 1 point is added for each response that matches the coding.

Range: 0-8

Codebook variable	Coding	Calc	Codebook Question
sink1	Yes/No	No = +1	1. Will a board sink in water?
sink2	Yes/No	Yes = +1	2. Will a stone sink in water?
hammer1	Yes/No	No = +1	3. Is a hammer good for cutting wood?
hammer2	Yes/No	Yes = +1	4. Can you use a hammer to pound nails?
flour1	Yes/No	Yes = +1	5. Do two pounds of flour weigh more than one?
flour2	Yes/No	No = +1	6. Is one pound of flour heavier than two?
boots1	Yes/No	No = +1	7. Will water go through a good pair of rubber boots?
boots2	Yes/No	Yes = +1	8. Will a good pair of rubber boots keep water out?

Ref for test:

Goodglass & Kaplna, 1983. The assessment of aphasia and related disorders, 2nd edition, Philadelpha: Lea & Febiger

As described, for example, in Wilson et al. 2002, Psychology and Aging, vol 17, no2, 179-193, for ROS: the distribution is very skew; this test was not included in composite scores

Variable	cts_lopair	Line Orientation - 2014	Longitudinal																																																																																																
Description	<div>Line Orientation</div> <p>This test is used in the calculation of perceptual orientation domain (cogn_po).</p> <p>We use a 15 item version of Judgment of Line orientation. Requires participants to estimate the angle subtended by two lines in a match-to-sample format.</p> <p>'Which two lines down here [POINT TO KEY] point in the same direction as the lines up here?'</p> <p>The score is based upon the number of line pairs correctly judged. The test has proven to be a sensitive measure of visual spatial perception in early Alzheimer's disease.</p> <p>Range: 00 - 15</p> <div><table><tr><th colspan="4">table1</th></tr><tr><th>value</th><th>code</th><th>value</th><th>code</th></tr><tr><td>1</td><td>line 1</td><td>7</td><td>line 7</td></tr><tr><td>2</td><td>line 2</td><td>8</td><td>line 8</td></tr><tr><td>3</td><td>line 3</td><td>9</td><td>line 9</td></tr><tr><td>4</td><td>line 4</td><td>10</td><td>line 10</td></tr><tr><td>5</td><td>line 5</td><td>11</td><td>line 11</td></tr><tr><td>6</td><td>line 6</td><td>12</td><td>line 12</td></tr></table></div> <div><table><tr><th>variable pairs</th><th>coding</th><th>question</th><th>answer key</th></tr><tr><td>line1a, line1b</td><td>table1</td><td>choose line pairs that match angle</td><td>2,6</td></tr><tr><td>line2a, line2b</td><td>table1</td><td>choose line pairs that match angle</td><td>8,3</td></tr><tr><td>line3a, line3b</td><td>table1</td><td>choose line pairs that match angle</td><td>10,1</td></tr><tr><td>line4a, line4b</td><td>table1</td><td>choose line pairs that match angle</td><td>11,8</td></tr><tr><td>line5a, line5b</td><td>table1</td><td>choose line pairs that match angle</td><td>4,1</td></tr><tr><td>line6a, line6b</td><td>table1</td><td>choose line pairs that match angle</td><td>9,2</td></tr><tr><td>line7a, line7b</td><td>table1</td><td>choose line pairs that match angle</td><td>5,2</td></tr><tr><td>line8a, line8b</td><td>table1</td><td>choose line pairs that match angle</td><td>10,7</td></tr><tr><td>line9a, line9b</td><td>table1</td><td>choose line pairs that match angle</td><td>3,1</td></tr><tr><td>line10a, line10b</td><td>table1</td><td>choose line pairs that match angle</td><td>10,5</td></tr><tr><td>line11a, line11b</td><td>table1</td><td>choose line pairs that match angle</td><td>9,1</td></tr><tr><td>line12a, line12b</td><td>table1</td><td>choose line pairs that match angle</td><td>11,9</td></tr><tr><td>line13a, line13b</td><td>table1</td><td>choose line pairs that match angle</td><td>8,5</td></tr><tr><td>line14a, line14b</td><td>table1</td><td>choose line pairs that match angle</td><td>11,3</td></tr><tr><td>line15a, line15b</td><td>table1</td><td>choose line pairs that match angle</td><td>10,6</td></tr></table></div>			table1				value	code	value	code	1	line 1	7	line 7	2	line 2	8	line 8	3	line 3	9	line 9	4	line 4	10	line 10	5	line 5	11	line 11	6	line 6	12	line 12	variable pairs	coding	question	answer key	line1a, line1b	table1	choose line pairs that match angle	2,6	line2a, line2b	table1	choose line pairs that match angle	8,3	line3a, line3b	table1	choose line pairs that match angle	10,1	line4a, line4b	table1	choose line pairs that match angle	11,8	line5a, line5b	table1	choose line pairs that match angle	4,1	line6a, line6b	table1	choose line pairs that match angle	9,2	line7a, line7b	table1	choose line pairs that match angle	5,2	line8a, line8b	table1	choose line pairs that match angle	10,7	line9a, line9b	table1	choose line pairs that match angle	3,1	line10a, line10b	table1	choose line pairs that match angle	10,5	line11a, line11b	table1	choose line pairs that match angle	9,1	line12a, line12b	table1	choose line pairs that match angle	11,9	line13a, line13b	table1	choose line pairs that match angle	8,5	line14a, line14b	table1	choose line pairs that match angle	11,3	line15a, line15b	table1	choose line pairs that match angle	10,6
table1																																																																																																			
value	code	value	code																																																																																																
1	line 1	7	line 7																																																																																																
2	line 2	8	line 8																																																																																																
3	line 3	9	line 9																																																																																																
4	line 4	10	line 10																																																																																																
5	line 5	11	line 11																																																																																																
6	line 6	12	line 12																																																																																																
variable pairs	coding	question	answer key																																																																																																
line1a, line1b	table1	choose line pairs that match angle	2,6																																																																																																
line2a, line2b	table1	choose line pairs that match angle	8,3																																																																																																
line3a, line3b	table1	choose line pairs that match angle	10,1																																																																																																
line4a, line4b	table1	choose line pairs that match angle	11,8																																																																																																
line5a, line5b	table1	choose line pairs that match angle	4,1																																																																																																
line6a, line6b	table1	choose line pairs that match angle	9,2																																																																																																
line7a, line7b	table1	choose line pairs that match angle	5,2																																																																																																
line8a, line8b	table1	choose line pairs that match angle	10,7																																																																																																
line9a, line9b	table1	choose line pairs that match angle	3,1																																																																																																
line10a, line10b	table1	choose line pairs that match angle	10,5																																																																																																
line11a, line11b	table1	choose line pairs that match angle	9,1																																																																																																
line12a, line12b	table1	choose line pairs that match angle	11,9																																																																																																
line13a, line13b	table1	choose line pairs that match angle	8,5																																																																																																
line14a, line14b	table1	choose line pairs that match angle	11,3																																																																																																
line15a, line15b	table1	choose line pairs that match angle	10,6																																																																																																

Variable	cts_mmse30	MMSE - 2014	Longitudinal																																																																																				
Other Forms	_l, _lv, _bl																																																																																						
Description	<p>The Mini Mental State Examination is a widely used, 30 item, standardized screening measure of dementia severity. It has previously been used in epidemiologic studies and is a component of the CERAD protocol. Short term temporal stability is excellent and scores are highly correlated with those on other scales of severity of dementia. This test provides a global measure of cognitive function useful for descriptive purposes. The initial ten items provide a psychometric measure of orientation.</p> <p>Participants are asked a series of questions to assess orientation to time and place, recall ability, short-term memory, and arithmetic ability.</p> <p>Data is available at baseline (_bl), last (_l) and last valid (_lv) levels.</p> <p>*see below for reference.</p> <pre>table1 value coding 0 Error 1 Correct 7 Not applicable 8 REFUSAL 9 DON'T KNOW</pre> <p>Code book variables:</p> <table><tr><th>Variables</th><th>Coding</th><th>Question</th></tr><tr><td>q1mme</td><td>table1</td><td>1. What is the year?</td></tr><tr><td>q2mme</td><td>table1</td><td>2. What is the season of the year?</td></tr><tr><td>q3mme</td><td>table1</td><td>3. What is the date?</td></tr><tr><td>q4mme</td><td>table1</td><td>4. What is the day of the week?</td></tr><tr><td>q5mme</td><td>table1</td><td>5. What is the month?</td></tr><tr><td>q6mme</td><td>table1</td><td>6. What state are we in?</td></tr><tr><td>q7mme</td><td>table1</td><td>7. What county are we in?</td></tr><tr><td>q8mme</td><td>table1</td><td>8. What city are we in?</td></tr><tr><td>q9mme</td><td>table1</td><td>9. What room are we in?</td></tr><tr><td>q10amme*</td><td>table1</td><td>10a. What is the address of this place? (Street Number)</td></tr><tr><td>q10bmme*</td><td>table1</td><td>10b. What is the address of this place? (Street Name)</td></tr></table> <p>*Note: both q10a and q10b have to be correct to get a point</p> <table><tr><td>apple</td><td>table1</td><td>11a. I am going to name 3 objects. After I have said them, I want you to repeat them. Apple (repeated successfully).</td></tr><tr><td>tabl</td><td>table1</td><td>11b. Table (repeated successfully).</td></tr><tr><td>penny</td><td>table1</td><td>11c. Penny (repeated successfully).</td></tr><tr><td>q12bmme</td><td>0-5</td><td>12. WORLD spelled backwards</td></tr><tr><td>q13amme</td><td>table1</td><td>13a. What were the three objects I asked you to remember? Apple.</td></tr><tr><td>q13bmme</td><td>table1</td><td>13a. What were the three objects I asked you to remember? Table.</td></tr><tr><td>q13cmme</td><td>table1</td><td>13a. What were the three objects I asked you to remember? Penny.</td></tr><tr><td>q14mme</td><td>table1</td><td>14.[SHOW WRIST WATCH] What is this called?</td></tr><tr><td>q15mme</td><td>table1</td><td>15.[SHOW PENCIL] What is this called?</td></tr><tr><td>q16mme</td><td>table1</td><td>16.Repeating the phrase -No if s, and s or but s.</td></tr><tr><td>q17mme</td><td>table1</td><td>17. Read the words on this card, then do what it says.</td></tr><tr><td>paper</td><td>table1</td><td>18a. I'm going to give you a piece of paper. When I do, take the paper in your right hand, fold the paper in half with both hands, and put the paper down on your lap.(1 pt for each completed portion of command) Takes paper in right hand.</td></tr><tr><td>folds</td><td>table1</td><td>18b. Folds in half</td></tr><tr><td>places</td><td>table1</td><td>18c. Places in lap</td></tr><tr><td>q19mme</td><td>table1</td><td>19. Write any complete sentence on this piece of paper for me.</td></tr><tr><td>q20mme</td><td>table1</td><td>20.Please copy the drawing on this piece of paper.</td></tr></table> <p>Folstein MF, Folstein SE, McHugh PR. Mini-mental state. A practical method for grading the cognitive state of patients for the clinician. J Psychiatr Res. 1975 Nov;12(3):189-98</p>			Variables	Coding	Question	q1mme	table1	1. What is the year?	q2mme	table1	2. What is the season of the year?	q3mme	table1	3. What is the date?	q4mme	table1	4. What is the day of the week?	q5mme	table1	5. What is the month?	q6mme	table1	6. What state are we in?	q7mme	table1	7. What county are we in?	q8mme	table1	8. What city are we in?	q9mme	table1	9. What room are we in?	q10amme*	table1	10a. What is the address of this place? (Street Number)	q10bmme*	table1	10b. What is the address of this place? (Street Name)	apple	table1	11a. I am going to name 3 objects. After I have said them, I want you to repeat them. Apple (repeated successfully).	tabl	table1	11b. Table (repeated successfully).	penny	table1	11c. Penny (repeated successfully).	q12bmme	0-5	12. WORLD spelled backwards	q13amme	table1	13a. What were the three objects I asked you to remember? Apple.	q13bmme	table1	13a. What were the three objects I asked you to remember? Table.	q13cmme	table1	13a. What were the three objects I asked you to remember? Penny.	q14mme	table1	14.[SHOW WRIST WATCH] What is this called?	q15mme	table1	15.[SHOW PENCIL] What is this called?	q16mme	table1	16.Repeating the phrase -No if s, and s or but s.	q17mme	table1	17. Read the words on this card, then do what it says.	paper	table1	18a. I'm going to give you a piece of paper. When I do, take the paper in your right hand, fold the paper in half with both hands, and put the paper down on your lap.(1 pt for each completed portion of command) Takes paper in right hand.	folds	table1	18b. Folds in half	places	table1	18c. Places in lap	q19mme	table1	19. Write any complete sentence on this piece of paper for me.	q20mme	table1	20.Please copy the drawing on this piece of paper.
Variables	Coding	Question																																																																																					
q1mme	table1	1. What is the year?																																																																																					
q2mme	table1	2. What is the season of the year?																																																																																					
q3mme	table1	3. What is the date?																																																																																					
q4mme	table1	4. What is the day of the week?																																																																																					
q5mme	table1	5. What is the month?																																																																																					
q6mme	table1	6. What state are we in?																																																																																					
q7mme	table1	7. What county are we in?																																																																																					
q8mme	table1	8. What city are we in?																																																																																					
q9mme	table1	9. What room are we in?																																																																																					
q10amme*	table1	10a. What is the address of this place? (Street Number)																																																																																					
q10bmme*	table1	10b. What is the address of this place? (Street Name)																																																																																					
apple	table1	11a. I am going to name 3 objects. After I have said them, I want you to repeat them. Apple (repeated successfully).																																																																																					
tabl	table1	11b. Table (repeated successfully).																																																																																					
penny	table1	11c. Penny (repeated successfully).																																																																																					
q12bmme	0-5	12. WORLD spelled backwards																																																																																					
q13amme	table1	13a. What were the three objects I asked you to remember? Apple.																																																																																					
q13bmme	table1	13a. What were the three objects I asked you to remember? Table.																																																																																					
q13cmme	table1	13a. What were the three objects I asked you to remember? Penny.																																																																																					
q14mme	table1	14.[SHOW WRIST WATCH] What is this called?																																																																																					
q15mme	table1	15.[SHOW PENCIL] What is this called?																																																																																					
q16mme	table1	16.Repeating the phrase -No if s, and s or but s.																																																																																					
q17mme	table1	17. Read the words on this card, then do what it says.																																																																																					
paper	table1	18a. I'm going to give you a piece of paper. When I do, take the paper in your right hand, fold the paper in half with both hands, and put the paper down on your lap.(1 pt for each completed portion of command) Takes paper in right hand.																																																																																					
folds	table1	18b. Folds in half																																																																																					
places	table1	18c. Places in lap																																																																																					
q19mme	table1	19. Write any complete sentence on this piece of paper for me.																																																																																					
q20mme	table1	20.Please copy the drawing on this piece of paper.																																																																																					

Variable	cts_ncrtd	Number Comparison - 2014		Longitudinal
Description	Number Comparison			
	This test is used in the calculation of perceptual speed domain (cogn_ps).			
	The participant is presented with 48 pairs of numbers. Some of the numbers are exactly the same while others do not match. The participants is asked to identify pairs as "same" or "different". Each correct answer is scored.			
	Corrected score = number of items correctly identified minus the total number of wrong answers including don't know and refused responses.			
	Range: 0 - 48			
	table1			
	value	code		
	s	same		
	d	different		
	8	don't know		
	9	refusal		
	variable	coding	question	answer key
	Page3-item1	table1	420__460	d
	Page3-item2	table1	13897143__13897145	d
	Page3-item3	table1	4327__4327	s
	Page3-item4	table1	519605__519605	s
	Page3-item5	table1	3201859__3201859	s
	Page3-item6	table1	13603__17603	d
	Page3-item7	table1	621532992__621532992	s
	Page3-item8	table1	2570665292__2570665292	s
	Page4-item9	table1	4821__9821	d
	Page4-item10	table1	5327010538__5327010538	s
	Page4-item11	table1	236__936	d
	Page4-item12	table1	5911306__5911306	s
	Page4-item13	table1	49471307__47471307	d
	Page4-item14	table1	341798301__341798701	d
	Page4-item15	table1	347820__349820	d
	Page4-item16	table1	60971__60971	s
	Page5-item17	table1	925660752__925660752	s
	Page5-item18	table1	5930582136__5730582136	d
	Page5-item19	table1	27109__27109	s
	Page5-item20	table1	4951__4951	s
	Page5-item21	table1	3821043__3821043	s
	Page5-item22	table1	39471307__39471507	d
	Page5-item23	table1	414982__415982	d
	Page5-item24	table1	618__618	s
	Page6-item25	table1	5471075693__5471075683	d
	Page6-item26	table1	647107569__647107569	s
	Page6-item27	table1	17906__17906	s
	Page6-item28	table1	705__708	d
	Page6-item29	table1	24179830__24179830	s
	Page6-item30	table1	619605__619505	d
	Page6-item31	table1	7215__7915	d
	Page6-item32	table1	4714306__4715306	d
	Page7-item33	table1	65382__65382	s
	Page7-item34	table1	6082649875__6082647875	d
	Page7-item35	table1	289414__283414	d
	Page7-item36	table1	7361408__7361708	d
	Page7-item37	table1	16253948__16253948	s
	Page7-item38	table1	7573__7573	s
	Page7-item39	table1	639__637	d
	Page7-item40	table1	370543141__370543141	s
	Page8-item41	table1	705731195__705731195	s
	Page8-item42	table1	5082__1082	d
	Page8-item43	table1	4930582136__4930582136	s
	Page8-item44	table1	43210573__43710573	d
	Page8-item45	table1	710__710	s
	Page8-item46	table1	4573043__4573043	s
	Page8-item47	table1	923452__927452	d
	Page8-item48	table1	80537__80737	d

Variable	cts_pmat	Progressive Matrices - 2014		Longitudinal
Description	Progressive Matrices			
	This test is used in the calculation of perceptual orientation domain (cogn_po).			
	The participant is shown a series of visual images and asked to identify the pattern below which would complete the pattern on top. A total of sixteen patterns are shown. 'Tell me which piece below [POINT] would complete the pattern on top [POINT]'			
	This harmonized version of this test was started in 2014. ROS, MAP, and MARS now all use the same 16 items.			
	Range: 0-16			
	table1			
	value	code		
	1	figure 1		
	2	figure 2		
	3	figure 3		
4	figure 4			
5	figure 5			
6	figure 6			
variable	coding	question	answer key	
a2	table1	complete the pattern	figure 5	
a4	table1	complete the pattern	figure 2	
a5	table1	complete the pattern	figure 6	
a6	table1	complete the pattern	figure 3	
a7	table1	complete the pattern	figure 6	
a8	table1	complete the pattern	figure 2	
a11	table1	complete the pattern	figure 4	
a12	table1	complete the pattern	figure 5	
b1	table1	complete the pattern	figure 2	
b2	table1	complete the pattern	figure 6	
b3	table1	complete the pattern	figure 1	
b4	table1	complete the pattern	figure 2	
b5	table1	complete the pattern	figure 1	
b6	table1	complete the pattern	figure 3	
b8	table1	complete the pattern	figure 6	
b10	table1	complete the pattern	figure 3	

Variable	cts_read_nart	Reading Test - NART - 2014	Longitudinal																																	
Description	<p>NART - National Adult Reading Test</p> <p>Participant is requested to read aloud a series of words of increasing difficulty.</p> <p>Reading Test, a subtest of items of the National Adult Reading Test, measures the ability to pronounce words. Primary measure of performance is the number of words correctly pronounced.</p> <p>This test is used in the calculation of semantic memory domain (cogn_se).</p> <p>This test was included in the harmonized cognitive battery in 2014 and is a new test for MARS study. It had previously been included in ROS and MAP since they began.</p> <p>range: 0 to 10</p> <table><tr><th>variable</th><th>coding</th><th>question</th></tr><tr><td>nart_ach</td><td>0-Error/1-Correct</td><td>1. Ache</td></tr><tr><td>nart_ind</td><td>0-Error/1-Correct</td><td>2. Indict</td></tr><tr><td>nart_deb</td><td>0-Error/1-Correct</td><td>3. Debt</td></tr><tr><td>nart_sie</td><td>0-Error/1-Correct</td><td>4. Sieve</td></tr><tr><td>nart_pla</td><td>0-Error/1-Correct</td><td>5. Placebo</td></tr><tr><td>nart_fac</td><td>0-Error/1-Correct</td><td>6. Facade</td></tr><tr><td>nart_imp</td><td>0-Error/1-Correct</td><td>7. Impugn</td></tr><tr><td>nart_bla</td><td>0-Error/1-Correct</td><td>8. Blatant</td></tr><tr><td>nart_cav</td><td>0-Error/1-Correct</td><td>9. Caveat</td></tr><tr><td>nart_cab</td><td>0-Error/1-Correct</td><td>10. Cabal</td></tr></table> <p>McGurn, B; Starr, JM; Topfer, JA; Pattie, A; Whiteman, MC; Lemmon, HA; Whalley, LJ; Deary, IJ (2004). "Pronunciation of irregular words is preserved in dementia, validating premorbid IQ estimation". Neurology 62 (7): 1184-1186. PMID 15079021</p>			variable	coding	question	nart_ach	0-Error/1-Correct	1. Ache	nart_ind	0-Error/1-Correct	2. Indict	nart_deb	0-Error/1-Correct	3. Debt	nart_sie	0-Error/1-Correct	4. Sieve	nart_pla	0-Error/1-Correct	5. Placebo	nart_fac	0-Error/1-Correct	6. Facade	nart_imp	0-Error/1-Correct	7. Impugn	nart_bla	0-Error/1-Correct	8. Blatant	nart_cav	0-Error/1-Correct	9. Caveat	nart_cab	0-Error/1-Correct	10. Cabal
variable	coding	question																																		
nart_ach	0-Error/1-Correct	1. Ache																																		
nart_ind	0-Error/1-Correct	2. Indict																																		
nart_deb	0-Error/1-Correct	3. Debt																																		
nart_sie	0-Error/1-Correct	4. Sieve																																		
nart_pla	0-Error/1-Correct	5. Placebo																																		
nart_fac	0-Error/1-Correct	6. Facade																																		
nart_imp	0-Error/1-Correct	7. Impugn																																		
nart_bla	0-Error/1-Correct	8. Blatant																																		
nart_cav	0-Error/1-Correct	9. Caveat																																		
nart_cab	0-Error/1-Correct	10. Cabal																																		

Variable	cts_read_wrat	Reading Test - WRAT - 2014	Longitudinal																																																
Description	<p>Wide Range Achievement Test (WRAT).</p> <p>A measure of semantic memory. In the test participants are shown a series of words and asked to pronounce these words the best they can. Each correct answer is scored. The scoring is based on the number of words correctly pronounced.</p> <p>As of January 2014, the WRAT will be given only at baseline visit for ROS, MAP, and MARS.</p> <p>range: 0 to 15</p> <table><tr><th>variable</th><th>coding</th><th>question</th></tr><tr><td>wrat_red</td><td>0-error/1-correct</td><td>1. red</td></tr><tr><td>wrat_cit</td><td>0-error/1-correct</td><td>2. city</td></tr><tr><td>wrat_bet</td><td>0-error/1-correct</td><td>3. between</td></tr><tr><td>wrat_gru</td><td>0-error/1-correct</td><td>4. grunt</td></tr><tr><td>wrat_plo</td><td>0-error/1-correct</td><td>5. plot</td></tr><tr><td>wrat_hum</td><td>0-error/1-correct</td><td>6. humidity</td></tr><tr><td>wrat_cla</td><td>0-error/1-correct</td><td>7. clarify</td></tr><tr><td>wrat_urg</td><td>0-error/1-correct</td><td>8. urge</td></tr><tr><td>wrat_den</td><td>0-error/1-correct</td><td>9. deny</td></tr><tr><td>wrat_qua</td><td>0-error/1-correct</td><td>10. quarantine</td></tr><tr><td>wrat_mos</td><td>0-error/1-correct</td><td>11. mosaic</td></tr><tr><td>wrat_aud</td><td>0-error/1-correct</td><td>12. audacious</td></tr><tr><td>wrat_mit</td><td>0-error/1-correct</td><td>13. mitosis</td></tr><tr><td>wrat_lon</td><td>0-error/1-correct</td><td>14. longevity</td></tr><tr><td>wrat_bea</td><td>0-error/1-correct</td><td>15. beatify</td></tr></table> <p>Wilkinson, G. S., & Robertson, G. J. (2006). Wide Range Achievement Test 4 professional manual. Lutz, FL: Psychological Assessment Resources</p>			variable	coding	question	wrat_red	0-error/1-correct	1. red	wrat_cit	0-error/1-correct	2. city	wrat_bet	0-error/1-correct	3. between	wrat_gru	0-error/1-correct	4. grunt	wrat_plo	0-error/1-correct	5. plot	wrat_hum	0-error/1-correct	6. humidity	wrat_cla	0-error/1-correct	7. clarify	wrat_urg	0-error/1-correct	8. urge	wrat_den	0-error/1-correct	9. deny	wrat_qua	0-error/1-correct	10. quarantine	wrat_mos	0-error/1-correct	11. mosaic	wrat_aud	0-error/1-correct	12. audacious	wrat_mit	0-error/1-correct	13. mitosis	wrat_lon	0-error/1-correct	14. longevity	wrat_bea	0-error/1-correct	15. beatify
variable	coding	question																																																	
wrat_red	0-error/1-correct	1. red																																																	
wrat_cit	0-error/1-correct	2. city																																																	
wrat_bet	0-error/1-correct	3. between																																																	
wrat_gru	0-error/1-correct	4. grunt																																																	
wrat_plo	0-error/1-correct	5. plot																																																	
wrat_hum	0-error/1-correct	6. humidity																																																	
wrat_cla	0-error/1-correct	7. clarify																																																	
wrat_urg	0-error/1-correct	8. urge																																																	
wrat_den	0-error/1-correct	9. deny																																																	
wrat_qua	0-error/1-correct	10. quarantine																																																	
wrat_mos	0-error/1-correct	11. mosaic																																																	
wrat_aud	0-error/1-correct	12. audacious																																																	
wrat_mit	0-error/1-correct	13. mitosis																																																	
wrat_lon	0-error/1-correct	14. longevity																																																	
wrat_bea	0-error/1-correct	15. beatify																																																	

Variable	cts_sdmt	Symbol Digit Modalities - 2014	Longitudinal
Description	SYMBOL DIGIT, NUMBER OF CORRECT DIGITS - Oral Version		
	This test is used in the calculation of perceptual speed domain (cogn_ps).		
	This is a measure in which the participant must learn to associate digits with abstract symbols. Participant is shown a series of symbol. Each symbol corresponds to a number from 1 to 9. The participant is asked to call out the numbers that match the symbols shown to them one at a time. They are allowed 90 seconds to translate as many symbols as the can. Total score is computed from all correctly identified symbols. Symbols substitution measures have demonstrated excellent short-term stability and sensitivity to aging and AD. To enhance applicability, the oral version of this test is used with enlarged stimuli.		
	Range: 0 - 110		
	variable	coding	question
	row1	2161246125	10 symbols displayed
	row2	6341269438	10 symbols displayed
	row3	4578137485	10 symbols displayed
	row4	2934724516	10 symbols displayed
	row5	4156798364	10 symbols displayed
	row6	9583674523	10 symbols displayed
	row7	7928169723	10 symbols displayed
	row8	6491725684	10 symbols displayed
	row9	2879378519	10 symbols displayed
	row10	2143652164	10 symbols displayed
	row11	2169735489	10 symbols displayed
	Smith A. (1982). Symbol Digits Modalities Test manual - revised. Los Angeles: Western Psychological Services.		

Variable	cts_story	Logical Memory Ia - immediate - 2014	Longitudinal
Description	<p>Logical Memory - Immediate recall Ia</p> <p>This is a measure from the Wechsler Memory Scale - Revised, 1987, in which a brief story is read to the participants. Then the participant is asked to retell it from memory immediately and after a delay (II). There are two performance measures: number of story unites recalled (out of 25) immediately and following an approximately 30 minute delay(see cts_delay). Inter rated reliability and short term temporal stability are excellent. It has been used in epidemiological and numerous clinical studies of Alzheimer's disease.</p> <p>This test is used in the calculation of episodic memory domain (cogn_ep).</p> <p>Range: 00 to 25</p> <p>Coding: 77 = DEFERRED 98 = REFUSAL 99 = DON'T KNOW</p>		

Variable	cts_wli	Word List I - immediate - 2014	Longitudinal
Description	WORD LIST MEMORY, TRIALS 1 -3, IMMEDIATE		
	This test is used in the calculation of episodic memory domain (cogn_ep).		
	This is a measure from the CERAD set of neuropsychological performance tests. A 10-word list is presented, three times (total of 30 words), with three immediate recall trails. The primary measure of performance is the total number of words recalled for 3 trials.		
	Range: 00 - 30		
	Trial 1		
	variable	coding	question
	wordt1_1	0-error/1-correctly recalled	1. butter
	wordt1_2	0-error/1-correctly recalled	2. arm
	wordt1_3	0-error/1-correctly recalled	3. shore
	wordt1_4	0-error/1-correctly recalled	4. letter
	wordt1_5	0-error/1-correctly recalled	5. queen
	wordt1_6	0-error/1-correctly recalled	6. cabin
	wordt1_7	0-error/1-correctly recalled	7. pole
	wordt1_8	0-error/1-correctly recalled	8. ticket
	wordt1_9	0-error/1-correctly recalled	9. grass
	wordt1_x	0-error/1-correctly recalled	10. engine
	Trial 2		
	variable	coding	question
	wordt2_1	0-error/1-correctly recalled	1. ticket
	wordt2_2	0-error/1-correctly recalled	2. cabin
	wordt2_3	0-error/1-correctly recalled	3. butter
	wordt2_4	0-error/1-correctly recalled	4. shore
	wordt2_5	0-error/1-correctly recalled	5. engine
	wordt2_6	0-error/1-correctly recalled	6. arm
	wordt2_7	0-error/1-correctly recalled	7. queen
	wordt2_8	0-error/1-correctly recalled	8. letter
	wordt2_9	0-error/1-correctly recalled	9. pole
	wordt2_x	0-error/1-correctly recalled	10. grass
	Trial 3		
	variable	coding	question
	wordt3_1	0-error/1-correctly recalled	1. queen
	wordt3_2	0-error/1-correctly recalled	2. grass
	wordt3_3	0-error/1-correctly recalled	3. arm
	wordt3_4	0-error/1-correctly recalled	4. cabin
	wordt3_5	0-error/1-correctly recalled	5. pole
	wordt3_6	0-error/1-correctly recalled	6. shore
	wordt3_7	0-error/1-correctly recalled	7. butter
	wordt3_8	0-error/1-correctly recalled	8. engine
	wordt3_9	0-error/1-correctly recalled	9. ticket
	wordt3_x	0-error/1-correctly recalled	10. letter

Variable	cts_wlii	Word List II - delayed - 2014	Longitudinal																																	
Description	<p>WORD LIST RECALL, DELAYED RECALL</p> <p>The participant is asked to read a list of ten words one at a time. They are presented with 3 trials with the words in different order for each trial. A few minutes later the participant is asked to identify as many words as they can recall. Each identified word is scored as correct.</p> <p>This test is used in the calculation of episodic memory domain (cogn_ep).</p> <p>Range: 00 - 10</p> <table><tr><th>variable</th><th>coding</th><th>question</th></tr><tr><td>recall_1</td><td>0-error/1-correctly recalled</td><td>1. butter</td></tr><tr><td>recall_2</td><td>0-error/1-correctly recalled</td><td>2. arm</td></tr><tr><td>recall_3</td><td>0-error/1-correctly recalled</td><td>3. shore</td></tr><tr><td>recall_4</td><td>0-error/1-correctly recalled</td><td>4. letter</td></tr><tr><td>recall_5</td><td>0-error/1-correctly recalled</td><td>5. queen</td></tr><tr><td>recall_6</td><td>0-error/1-correctly recalled</td><td>6. cabin</td></tr><tr><td>recall_7</td><td>0-error/1-correctly recalled</td><td>7. pole</td></tr><tr><td>recall_8</td><td>0-error/1-correctly recalled</td><td>8. ticket</td></tr><tr><td>recall_9</td><td>0-error/1-correctly recalled</td><td>9. grass</td></tr><tr><td>recall_x</td><td>0-error/1-correctly recalled</td><td>10. engine</td></tr></table>			variable	coding	question	recall_1	0-error/1-correctly recalled	1. butter	recall_2	0-error/1-correctly recalled	2. arm	recall_3	0-error/1-correctly recalled	3. shore	recall_4	0-error/1-correctly recalled	4. letter	recall_5	0-error/1-correctly recalled	5. queen	recall_6	0-error/1-correctly recalled	6. cabin	recall_7	0-error/1-correctly recalled	7. pole	recall_8	0-error/1-correctly recalled	8. ticket	recall_9	0-error/1-correctly recalled	9. grass	recall_x	0-error/1-correctly recalled	10. engine
variable	coding	question																																		
recall_1	0-error/1-correctly recalled	1. butter																																		
recall_2	0-error/1-correctly recalled	2. arm																																		
recall_3	0-error/1-correctly recalled	3. shore																																		
recall_4	0-error/1-correctly recalled	4. letter																																		
recall_5	0-error/1-correctly recalled	5. queen																																		
recall_6	0-error/1-correctly recalled	6. cabin																																		
recall_7	0-error/1-correctly recalled	7. pole																																		
recall_8	0-error/1-correctly recalled	8. ticket																																		
recall_9	0-error/1-correctly recalled	9. grass																																		
recall_x	0-error/1-correctly recalled	10. engine																																		

Variable	cts_wliii	Word List III - recognition - 2014	Longitudinal
Description	WORD LIST RECOGNITION, DELAYED RECOGNITION		
	A measure of episodic memory. Participant is shown ten sets of four words, one set at a time, and asked to select the words from each set that (s)he was shown previously. The primary measure of performance is the number of target words correctly identified.		
	This test is used in the calculation of episodic memory domain (cogn_ep).		
	Range: 00 - 10		
	variable	coding	question (correct answer is capitalized)
	wordrec1	0-error/1-correctly identified	1. Palace, Dollar, LETTER, Railroad.
	wordrec2	0-error/1-correctly identified	2. Book, River, Stone, POLE
	wordrec3	0-error/1-correctly identified	3. Animal, Village, ENGINE, Diamond
	wordrec4	0-error/1-correctly identified	4. Garden, ARM, Rock, Coffee
	wordrec5	0-error/1-correctly identified	5. Church, QUEEN, Temple, Ocean
	wordrec6	0-error/1-correctly identified	6. CABIN, Boy, Fire, Street
	wordrec7	0-error/1-correctly identified	7. Machine, Officer, String, TICKET
	wordrec8	0-error/1-correctly identified	8. Sky, BUTTER, Hotel, Party
	wordrec9	0-error/1-correctly identified	9. GRASS, Mountain, Clock, Camp
	wordrecx	0-error/1-correctly identified	10. Troops, Pipe, SHORE, Coin

Variable	fruits	Category fluency-fruits and vegetables	Longitudinal
Description	<p>This is a measure of verbal fluency or semantic memory in which participant is asked to generate exemplars from that category fruits/vegetables in successive 1 minute trials. The primary performance measure is the number of unique exemplars generated. Similar measures have been shown to be impaired in Alzheimer's disease. The CERAD implementation of this test is used with this item which adds to the reliability.</p> <p>Range: 0-75</p> <p>Scoring: The total number of fruits/vegetables named is recorded. Repetitions are omitted.</p>		

Demographics(count: 8)

Variable	age_at_visit	Age at Cycle - Fractional	Longitudinal
References	<p>Purpose in Life Is Associated With a Reduced Risk of Incident Disability Among Community-Dwelling Older Persons.</p> <p>Boyle PA, Buchman AS, Bennett DA</p> <p>Journal: The American journal of geriatric psychiatry : official journal of the American Association for Geriatric Psychiatry 2010 Jun 10 ; 18(12) 1093-102</p>		
Description	<p>Float variable for age at cycle.</p> <p>date_ce is used to computed this age which is determined by the first date found for a valid form in the following heirarchy:</p> <ol style="list-style-type: none"> 1. cognitive date 2. clinical evaluation date (neurological exam, med hx, meds) 3. interview date 4. dcf date (diagnostic classification form) 5. neuropsychologist impression date 		
Variable	age_bl	Age at baseline	Cross-sectional
Description	<p>Integer age at cycle - Baseline</p> <p>date_ce is used to computed this age which is determined by the first date found for a valid form in the following heirarchy:</p> <ol style="list-style-type: none"> 1. cognitive date 2. clinical evaluation date (neurological exam, med hx, meds) 3. interview date 4. dcf date (diagnostic classification form) 5. neuropsychologist impression date 		
Variable	age_death	Age at death	Cross-sectional
References	<p>Purpose in Life Is Associated With a Reduced Risk of Incident Disability Among Community-Dwelling Older Persons.</p> <p>Boyle PA, Buchman AS, Bennett DA</p> <p>Journal: The American journal of geriatric psychiatry : official journal of the American Association for Geriatric Psychiatry 2010 Jun 10 ; 18(12) 1093-102</p>		
Description	<p>age of death is calculated from subtracting date of birth from date of death and dividing the difference by days per year (365.25).</p> <p>The autopsy rate of the Rush MAP exceeds 80%. Thus, for most participants from the MAP, the exact date of death is known by being the day an autopsy was performed. In addition to their annual evaluations, participants from both cohorts (MAP and the MARS) also are contacted quarterly to determine vital status and changes in health, and death is occasionally learned of during quarterly contacts. Finally, research assistants for both studies regularly search the Social Security Death Index via the internet for the small number of persons we are unable to contact.</p>		
Variable	died	Indicator of death	Cross-sectional
Description	<p>Allowable codes:</p> <p>1 died</p> <p>0 alive</p>		

Variable	educ	Years of education	Cross-sectional
References	<p>Education modifies the association of amyloid but not tangles with cognitive function. Bennett DA, Schneider JA, Wilson RS, Bienias JL, Arnold SE Journal: Neurology 2005 Sep 27 ; 65(6) 953-5</p> <p>Educational attainment and cognitive decline in old age. Wilson RS, Hebert LE, Scherr PA, Barnes LL, Mendes de Leon CF, Evans DA Journal: Neurology 2009 Feb 3 ; 72(5) 460-5</p>		
Description	<p>Education level-</p> <p>Highest grade or year of regular school as recorded during the baseline cognitive testing.</p> <p>Elementary 0 1 2 3 4 5 6 7 8</p> <p>High School 9 10 11 12</p> <p>College 13 14 15 16</p> <p>Graduate\Professional 17 18 19 20 21 ...</p> <p>98 = REFUSAL (blaise code) 99 = DON'T KNOW (blaise code)</p> <p>Years of formal education was determined with the education question from the 1990 US Census.</p>		

Variable	msex	Gender	Cross-sectional
Description	<p>Gender</p> <p>Allowable codes:</p> <p>1 = Male 0 = Female</p>		

Variable	race	Participant's Race	Cross-sectional
References	<p>Biracial population study of mortality in mild cognitive impairment and Alzheimer disease. Wilson RS, Aggarwal NT, Barnes LL, Bienias JL, Mendes de Leon CF, Evans DA Journal: Archives of neurology 2009 Jun ; 66(6) 767-72</p> <p>A population-based study of hemoglobin, race, and mortality in elderly persons. Dong X, Mendes de Leon C, Artz A, Tang Y, Shah R, Evans D Journal: The journals of gerontology. Series A, Biological sciences and medical sciences 2008 Aug; 63(8) 873-8</p>		
Description	<p>With which group do you most closely identify yourself?</p> <p>value coding:</p> <p>1 White</p> <p>2 Black, Negro, African-American</p> <p>3 Native American, Indian</p> <p>4 Eskimo</p> <p>5 Aleut</p> <p>6 Asian or Pacific Island</p> <p>8 REFUSAL</p> <p>9 DON'T KNOW</p>		

Variable	spanish	Spanish/Hispanic origin	Cross-sectional
Description	<p>Are you of Spanish/Hispanic/Latino origin?</p> <p>value coding:</p> <p>1 Yes</p> <p>2 No</p> <p>8 REFUSAL</p> <p>9 DON'T KNOW</p>		

Disabilities(count: 6)

Variable	iadlsum	Instrumental activities of daily living		Longitudinal																																				
Other Forms	_lv, _bl																																							
References	<p>Physical activity and motor decline in older persons.</p> <p>Buchman AS, Boyle PA, Wilson RS, Bienias JL, Bennett DA</p> <p>Journal: Muscle & nerve 2007 Mar; 35(3) 354-62</p>																																							
Description	<p>A measure of disability.</p> <p>We assessed a series of instrumental activities of daily living (IADL) with eight questions, such as household management and self-care functions, which are required for independent living.</p> <div><div>1. telephone use</div><div>2. meal preparation</div><div>3. light housekeeping</div><div>4. heavy housekeeping</div><div>5. handling medications</div><div>6. handling finances</div><div>7. shopping</div><div>8. traveling within the community</div></div> <p>A participant is considered disabled on a particular item if s/he indicates that s/he could not perform that item without assistance; the total score for the scale is the sum of these individual dichotomous items. Thus, a score of zero on the scale indicates no disability as measured by that scale, and a score of the maximum possible (8 for the instrumental activities scale) indicates 100% disability, as measured by that scale.</p> <p>Table 1 Allowable Codes 1 = No help 2 = Help 3 = Unable to do</p> <table><tr><td>variable</td><td>coding</td><td>calc</td><td>question</td></tr><tr><td>q10func</td><td>table1</td><td>2or3 = +1</td><td>Are you able to use the telephone - including looking up numbers and dialing - completely by yourself or does someone else help you?</td></tr><tr><td>q12func</td><td>table1</td><td>2or3 = +1</td><td>Are you able to prepare your own meals completely by yourself or does someone else help you?</td></tr><tr><td>q13func</td><td>table1</td><td>2or3 = +1</td><td>Are you able to do routine light housekeeping completely by yourself or does someone else help you?</td></tr><tr><td>q14func</td><td>table1</td><td>2or3 = +1</td><td>Are you able to do periodic heavy housekeeping completely by yourself or does someone else help you?</td></tr><tr><td>q16func</td><td>table1</td><td>2or3 = +1</td><td>Are you able to take your own prescribed medicines completely by yourself or does someone else help you?</td></tr><tr><td>q17func</td><td>table1</td><td>2or3 = +1</td><td>Are you able to take care of your own finances - including paying bills, writing checks, keeping track of income (but not necessarily preparing your own taxes) - completely by yourself or does someone else help you?</td></tr><tr><td>q21func</td><td>table1</td><td>2or3 = +1</td><td>Are you able to travel around in your community to the places you might want to go, like to church or just to be outside completely by yourself or does someone else help you?</td></tr><tr><td>q20func</td><td>table1</td><td>2or3 = +1</td><td>Are you able to do your own personal shopping, like for clothes, for personal things, or for household needs completely by yourself or does someone else help you?</td></tr></table> <p>Lawton MP, Brody EM. Assessment of older people: self-maintaining and instrumental activities of daily living. Gerontologist. 1969;9:179-186.</p>				variable	coding	calc	question	q10func	table1	2or3 = +1	Are you able to use the telephone - including looking up numbers and dialing - completely by yourself or does someone else help you?	q12func	table1	2or3 = +1	Are you able to prepare your own meals completely by yourself or does someone else help you?	q13func	table1	2or3 = +1	Are you able to do routine light housekeeping completely by yourself or does someone else help you?	q14func	table1	2or3 = +1	Are you able to do periodic heavy housekeeping completely by yourself or does someone else help you?	q16func	table1	2or3 = +1	Are you able to take your own prescribed medicines completely by yourself or does someone else help you?	q17func	table1	2or3 = +1	Are you able to take care of your own finances - including paying bills, writing checks, keeping track of income (but not necessarily preparing your own taxes) - completely by yourself or does someone else help you?	q21func	table1	2or3 = +1	Are you able to travel around in your community to the places you might want to go, like to church or just to be outside completely by yourself or does someone else help you?	q20func	table1	2or3 = +1	Are you able to do your own personal shopping, like for clothes, for personal things, or for household needs completely by yourself or does someone else help you?
variable	coding	calc	question																																					
q10func	table1	2or3 = +1	Are you able to use the telephone - including looking up numbers and dialing - completely by yourself or does someone else help you?																																					
q12func	table1	2or3 = +1	Are you able to prepare your own meals completely by yourself or does someone else help you?																																					
q13func	table1	2or3 = +1	Are you able to do routine light housekeeping completely by yourself or does someone else help you?																																					
q14func	table1	2or3 = +1	Are you able to do periodic heavy housekeeping completely by yourself or does someone else help you?																																					
q16func	table1	2or3 = +1	Are you able to take your own prescribed medicines completely by yourself or does someone else help you?																																					
q17func	table1	2or3 = +1	Are you able to take care of your own finances - including paying bills, writing checks, keeping track of income (but not necessarily preparing your own taxes) - completely by yourself or does someone else help you?																																					
q21func	table1	2or3 = +1	Are you able to travel around in your community to the places you might want to go, like to church or just to be outside completely by yourself or does someone else help you?																																					
q20func	table1	2or3 = +1	Are you able to do your own personal shopping, like for clothes, for personal things, or for household needs completely by yourself or does someone else help you?																																					

Variable	katzsum	Katz measure of disability	Longitudinal																												
Other Forms	_lv, _bl																														
References	<p>Personality and incident disability in older persons. Krueger KR, Wilson RS, Shah RC, Tang Y, Bennett DA Journal: Age and ageing 2006 Jul; 35(4) 428-33</p> <p>Purpose in life is associated with mortality among community-dwelling older persons. Boyle PA, Barnes LL, Buchman AS, Bennett DA Journal: Psychosomatic medicine 2009 Jun ; 71(5) 574-9</p> <p>Physical activity and motor decline in older persons. Buchman AS, Boyle PA, Wilson RS, Bienias JL, Bennett DA Journal: Muscle & nerve 2007 Mar; 35(3) 354-62</p>																														
Description	<p>A measure of disability. This test measures basic activities of daily living.</p> <p>The Katz activities of daily living scale measures six basic physical abilities:</p> <ol style="list-style-type: none"> 1. bathing, 2. dressing, 3. eating, 4. toileting, 5. walking across a small room, 6. transferring from bed to chair. <p>Disability was assessed via the Katz scale, which includes six items that address basic activities of daily living: walking across a small room, bathing, dressing, eating, transferring from a bed to a chair, and toileting (24). A composite measure was created by summing the number of items on which participants reported the need for assistance; thus, higher scores indicated greater disability.</p> <p>table 1 Allowable Codes 1 = No Help 2 = Help 3 = Unable to do</p> <table> <thead> <tr> <th>variable</th><th>coding</th><th>calc</th><th>question</th></tr> </thead> <tbody> <tr> <td>Q4func</td><td>table 1</td><td>2or3 = +1</td><td>Walking across a small room?</td></tr> <tr> <td>Q5func</td><td>table 1</td><td>2or3 = +1</td><td>Bathing, either a sponge bath, tub bath or shower?</td></tr> <tr> <td>Q6func</td><td>table 1</td><td>2or3 = +1</td><td>Dressing, like putting on a shirt, buttoning and zipping, or putting on shoes?</td></tr> <tr> <td>Q7func</td><td>table 1</td><td>2or3 = +1</td><td>Eating, like holding a fork, cutting food, or drinking from a glass?</td></tr> <tr> <td>Q8func</td><td>table 1</td><td>2or3 = +1</td><td>Getting from a bed to a chair?</td></tr> <tr> <td>Q9func</td><td>table 1</td><td>2or3 = +1</td><td>Using the toilet?</td></tr> </tbody> </table> <p>Katz S, Akpom C. A measure of primary sociobiological functions. Int J Health Serv. 1976;6:493508.</p> <p>Branch LG, Katz S, Knipmann K, Papsidero JA. A prospective study of functional status among community elders. Am J Public Health 1984, 74, 2668.</p>			variable	coding	calc	question	Q4func	table 1	2or3 = +1	Walking across a small room?	Q5func	table 1	2or3 = +1	Bathing, either a sponge bath, tub bath or shower?	Q6func	table 1	2or3 = +1	Dressing, like putting on a shirt, buttoning and zipping, or putting on shoes?	Q7func	table 1	2or3 = +1	Eating, like holding a fork, cutting food, or drinking from a glass?	Q8func	table 1	2or3 = +1	Getting from a bed to a chair?	Q9func	table 1	2or3 = +1	Using the toilet?
variable	coding	calc	question																												
Q4func	table 1	2or3 = +1	Walking across a small room?																												
Q5func	table 1	2or3 = +1	Bathing, either a sponge bath, tub bath or shower?																												
Q6func	table 1	2or3 = +1	Dressing, like putting on a shirt, buttoning and zipping, or putting on shoes?																												
Q7func	table 1	2or3 = +1	Eating, like holding a fork, cutting food, or drinking from a glass?																												
Q8func	table 1	2or3 = +1	Getting from a bed to a chair?																												
Q9func	table 1	2or3 = +1	Using the toilet?																												

Variable	rosbscl	Rosow-Breslau scale	Longitudinal																																												
Other Forms	_lv, _bl																																														
Description	<p>This test measures mobility disability.</p> <p>range: 0-3</p> <p>Three questions concerning tasks/mobility are considered: doing heavy work around the house, walking up and down stairs, and walking half a mile without help.</p> <table><tr><td>table</td><td></td><td></td><td></td></tr><tr><td>value</td><td>coding</td><td></td><td></td></tr><tr><td>0</td><td colspan="3">Cannot perform any of the 3 tasks without help</td></tr><tr><td>1</td><td colspan="3">Can perform exactly 1 task without help</td></tr><tr><td>2</td><td colspan="3">Can perform exactly 2 tasks without help</td></tr><tr><td>3</td><td colspan="3">Can perform all 3 tasks without help</td></tr></table> <table><tr><td>variable</td><td></td><td></td><td></td></tr><tr><td>ros</td><td>map</td><td>coding</td><td>question</td></tr><tr><td>qlfs</td><td>qlfunc</td><td>table1</td><td>Are you ABLE to do heavy work around the house, like washing windows, walls, or floors without help?</td></tr><tr><td>q2fs</td><td>q2func</td><td>table1</td><td>Are you able to walk up and down stairs to the second floor without help?</td></tr><tr><td>q3fs</td><td>q3func</td><td>table1</td><td>Are you able to walk half a mile without help?</td></tr></table> <p>Rosow, I., Breslau, N. (1966). A Guttman Health Scale for the Aged. J Gerontol; 21: 556</p>			table				value	coding			0	Cannot perform any of the 3 tasks without help			1	Can perform exactly 1 task without help			2	Can perform exactly 2 tasks without help			3	Can perform all 3 tasks without help			variable				ros	map	coding	question	qlfs	qlfunc	table1	Are you ABLE to do heavy work around the house, like washing windows, walls, or floors without help?	q2fs	q2func	table1	Are you able to walk up and down stairs to the second floor without help?	q3fs	q3func	table1	Are you able to walk half a mile without help?
table																																															
value	coding																																														
0	Cannot perform any of the 3 tasks without help																																														
1	Can perform exactly 1 task without help																																														
2	Can perform exactly 2 tasks without help																																														
3	Can perform all 3 tasks without help																																														
variable																																															
ros	map	coding	question																																												
qlfs	qlfunc	table1	Are you ABLE to do heavy work around the house, like washing windows, walls, or floors without help?																																												
q2fs	q2func	table1	Are you able to walk up and down stairs to the second floor without help?																																												
q3fs	q3func	table1	Are you able to walk half a mile without help?																																												

Variable	rosbsum	Rosow-Breslau scale	Longitudinal																																												
Other Forms	_lv, _bl																																														
Description	<p>This test measures mobility disability.</p> <p>range: 0-3</p> <p>Three questions concerning tasks/mobility are considered: doing heavy work around the house, walking up and down stairs, and walking half a mile without help.</p> <table><tr><td colspan="4">table1</td></tr><tr><td>value</td><td></td><td>coding</td><td></td></tr><tr><td>0</td><td></td><td>Can perform all 3 tasks without help</td><td></td></tr><tr><td>1</td><td></td><td>Cannot perform 1 task without help</td><td></td></tr><tr><td>2</td><td></td><td>Cannot perform 2 tasks without help</td><td></td></tr><tr><td>3</td><td></td><td>Cannot perform all 3 tasks without help</td><td></td></tr></table> <table><tr><td colspan="4">variable</td></tr><tr><td>ros</td><td>map</td><td>coding</td><td>question</td></tr><tr><td>qlfs</td><td>qlfunc</td><td>table1</td><td>Are you ABLE to do heavy work around the house, like washing windows, walls, or floors without help?</td></tr><tr><td>q2fs</td><td>q2func</td><td>table1</td><td>Are you able to walk up and down stairs to the second floor without help?</td></tr><tr><td>q3fs</td><td>q3func</td><td>table1</td><td>Are you able to walk half a mile without help?</td></tr></table> <p>Rosow, I., Breslau, N. (1966). A Guttman Health Scale for the Aged. J Gerontol; 21: 556</p>			table1				value		coding		0		Can perform all 3 tasks without help		1		Cannot perform 1 task without help		2		Cannot perform 2 tasks without help		3		Cannot perform all 3 tasks without help		variable				ros	map	coding	question	qlfs	qlfunc	table1	Are you ABLE to do heavy work around the house, like washing windows, walls, or floors without help?	q2fs	q2func	table1	Are you able to walk up and down stairs to the second floor without help?	q3fs	q3func	table1	Are you able to walk half a mile without help?
table1																																															
value		coding																																													
0		Can perform all 3 tasks without help																																													
1		Cannot perform 1 task without help																																													
2		Cannot perform 2 tasks without help																																													
3		Cannot perform all 3 tasks without help																																													
variable																																															
ros	map	coding	question																																												
qlfs	qlfunc	table1	Are you ABLE to do heavy work around the house, like washing windows, walls, or floors without help?																																												
q2fs	q2func	table1	Are you able to walk up and down stairs to the second floor without help?																																												
q3fs	q3func	table1	Are you able to walk half a mile without help?																																												

Variable	vision	Vision acuity	Longitudinal																
Other Forms	_lv, _bl																		
Description	<p>Vision acuity</p> <p>Visual acuity is with both eyes open. A card is held 14 inches from subject and they are asked to read the number on the card. The trials start with 20/70 and goes to trials with increasing or decreasing letter size upon results.</p> <p>range: 1 to 7</p> <table><thead><tr><th>value</th><th>coding</th></tr></thead><tbody><tr><td>1</td><td>visual acuity=20/40</td></tr><tr><td>2</td><td>visual acuity=20/50</td></tr><tr><td>3</td><td>visual acuity=20/70</td></tr><tr><td>4</td><td>visual acuity=20/100</td></tr><tr><td>5</td><td>visual acuity=20/200</td></tr><tr><td>6</td><td>visual acuity=20/400</td></tr><tr><td>7</td><td>visual acuity=20/400G</td></tr></tbody></table>			value	coding	1	visual acuity=20/40	2	visual acuity=20/50	3	visual acuity=20/70	4	visual acuity=20/100	5	visual acuity=20/200	6	visual acuity=20/400	7	visual acuity=20/400G
value	coding																		
1	visual acuity=20/40																		
2	visual acuity=20/50																		
3	visual acuity=20/70																		
4	visual acuity=20/100																		
5	visual acuity=20/200																		
6	visual acuity=20/400																		
7	visual acuity=20/400G																		

Variable	visionlog	Visual Accutiy	Longitudinal
Other Forms	_lv, _bl		
Description	Visual Acuity:		
	value	coding	
	0.3	Visual acuity = 20/40	
	0.4	Visual acuity = 20/50	
	0.5	Visual acuity = 20/70	
	0.7	Visual acuity = 20/100	
	1.0	Visual acuity = 20/200	
	1.3	Visual acuity = 20/400	
	1.5	Visual acuity = 20/400G	

Frailty Measures(count: 4)

Frailty Measures - Pulmonary Functions

Variable	fev	forced expiratory volume	Longitudinal
References	Respiratory muscle strength predicts decline in mobility in older persons. Buchman AS, Boyle PA, Wilson RS, Leurgans S, Shah RC, Bennett DA Journal: Neuroepidemiology 2008; 31(3) 174-80		
Description	FEV - Forced Expiratory Volume This is the most important spirometry variable, short for Forced Expiratory Volume in one second. It is convenient to think of it as the average flow rate during the first second of the forced vital capacity (FVC) maneuver. It is reduced with airflow obstruction. This variable is the average of two trials to measure forced expiratory volume measured by spirometry (in liters).		

Variable	mep	maximal expiratory pressure	Longitudinal
References	Respiratory muscle strength predicts decline in mobility in older persons. Buchman AS, Boyle PA, Wilson RS, Leurgans S, Shah RC, Bennett DA Journal: Neuroepidemiology 2008; 31(3) 174-80 Pulmonary function, muscle strength, and incident mobility disability in elders. Buchman AS, Boyle PA, Leurgans SE, Evans DA, Bennett DA Journal: Proceedings of the American Thoracic Society 2009 Dec 1 ; 6(7) 581-7		
Description	MEP = Maximal Expiratory Pressure, a measure of the strength of the expiratory muscles. Average of two trials of pulmonary strength. expir1 = first trial of pulmonary strength (cm H20) expir2 = second trail of pulmonary strength (cm H20) Respiratory muscle strength was based on measures of maximal inspiratory and expiratory pressures. A hand-held device that contains a pressure sensitive transducer was used to assess maximal inspiratory pressure (MIP in cm H20) and maximal expiratory pressure (MEP in cm H20) (MicroMouth Pressure Meter MP01; MicroMedical Ltd.). Two trials of both MIPs and MEPs wee collected at baseline. The mean score for MIPs and MEPs were converted to z-scores, using the mean and standard deviation of all study participants at baseline. Both z-scores were averaged to yield a composite measure of respiratory muscle strength.		

Variable	mip	maximal inspiratory pressure	Longitudinal
References	<p>Respiratory muscle strength predicts decline in mobility in older persons. Buchman AS, Boyle PA, Wilson RS, Leurgans S, Shah RC, Bennett DA Journal: Neuroepidemiology 2008; 31(3) 174-80</p> <p>Pulmonary function, muscle strength, and incident mobility disability in elders. Buchman AS, Boyle PA, Leurgans SE, Evans DA, Bennett DA Journal: Proceedings of the American Thoracic Society 2009 Dec 1 ; 6(7) 581-7</p>		
Description	<p>MIP = Maximal Inspiratory Pressure, a measure of the strength of the diaphragm, the primary muscle of breathing.</p> <p>INSPIRATORY RESPIRATORY PRESSURE TESTING</p> <p>This variable measures maximal inspiratory pressure. It is the average of two trials: inspir1 = first trial of pulmonary strength (cm H20) inspir2 = second trail of pulmonary strength (cm H20)</p> <p>Respiratory muscle strength was based on measures of maximal inspiratory and expiratory pressures. A hand-held device that contains a pressure sensitive transducer was used to assess maximal inspiratory pressure (MIP in cm H20) and maximal expiratory pressure (MEP in cm H20) (MicroMouth Pressure Meter MP01; MicroMedical Ltd.). Two trials of both MIPs and MEPs were collected at baseline. The mean score for MIPs and MEPs were converted to z-scores, using the mean and standard deviation of all study participants at baseline. Both z-scores were averaged to yield a composite measure of respiratory muscle strength.</p>		

Variable	pvc	pulmonary vital capacity	Longitudinal
References	<p>Respiratory muscle strength predicts decline in mobility in older persons. Buchman AS, Boyle PA, Wilson RS, Leurgans S, Shah RC, Bennett DA Journal: Neuroepidemiology 2008; 31(3) 174-80</p>		
Description	<p>Pulmonary Vital Capacity (PVC)</p> <p>This variable is the average of two variables to measure forced vital capacity (FVC) as measured by spirometry.</p>		

Genetics(count: 1)

Variable	apoe_genotype	ApoE genotype	Cross-sectional														
References	<p>Apolipoprotein E genotype in diverse neurodegenerative disorders. Schneider JA, Gearing M, Robbins RS, de l'Aune W, Mirra SS Journal: Annals of neurology 1995 Jul; 38(1) 131-5</p> <p>The APOE epsilon4 allele is associated with incident mild cognitive impairment among community-dwelling older persons. Boyle PA, Buchman AS, Wilson RS, Kelly JF, Bennett DA Journal: Neuroepidemiology 2010 ; 34(1) 43-9</p> <p>Analysis of postmortem ventricular cerebrospinal fluid from patients with and without dementia indicates association of vitamin E with neuritic plaques and specific measures of cognitive performance. Hensley K, Barnes LL, Christov A, Tangney C, Honer WG, Schneider JA, Bennett DA, Morris MC Journal: Journal of Alzheimer's disease : JAD 2011 ; 24(4) 767-74</p>																
Description	<p>apolipoprotein E (APOE)</p> <table><tr><td>value</td><td>coding</td></tr><tr><td>22.00</td><td>E2E2</td></tr><tr><td>23.00</td><td>E2E3</td></tr><tr><td>24.00</td><td>E2E4</td></tr><tr><td>33.00</td><td>E3E3</td></tr><tr><td>34.00</td><td>E3E4</td></tr><tr><td>44.00</td><td>E4E4</td></tr></table> <p>DNA was extracted from PBMCs or brain. Genotyping was performed by Agencourt Bioscience Corporation utilizing high-throughput sequencing of codon 112 (position 3937) and codon 158 (position 4075) of exon 4 of the APOE gene on chromosome 19.</p>			value	coding	22.00	E2E2	23.00	E2E3	24.00	E2E4	33.00	E3E3	34.00	E3E4	44.00	E4E4
value	coding																
22.00	E2E2																
23.00	E2E3																
24.00	E2E4																
33.00	E3E3																
34.00	E3E4																
44.00	E4E4																

Laboratory Results(count: 14)

Variable	bun	BUN	Longitudinal
Description	<p>Blood urea nitrogen (BUN)-</p> <p>A standard procedure was used to collect blood samples. Using sterile technique, phlebotomists and nurses skilled in venipuncture collected the blood specimen in a 2-mL EDTA tube. Specimens were transferred to Quest Laboratories (Wood Dale, IL, USA) for a complete blood count analysis using a Beckan/Coulter LH750 automated processor.</p>		
Variable	ca	Calcium	Longitudinal
Description	<p>Calcium -</p> <p>A standard procedure was used to collect blood samples. Using sterile technique, phlebotomists and nurses skilled in venipuncture collected the blood specimen in a 2-mL EDTA tube. Specimens were transferred to Quest Laboratories (Wood Dale, IL, USA) for a complete blood count analysis using a Beckan/Coulter LH750 automated processor.</p>		
Variable	chlstrl	Cholesterol	Longitudinal
Description	<p>Value of total cholesterol level -</p> <p>Units: mg/dl</p> <p>A standard procedure was used to collect blood samples. Using sterile technique, phlebotomists and nurses skilled in venipuncture collected the blood specimen in a 2-mL EDTA tube. Specimens were transferred to Quest Laboratories (Wood Dale, IL, USA) for a complete blood count analysis using a Beckan/Coulter LH750 automated processor.</p>		
Variable	cl	Chloride	Longitudinal
Description	<p>Chloride -</p> <p>A standard procedure was used to collect blood samples. Using sterile technique, phlebotomists and nurses skilled in venipuncture collected the blood specimen in a 2-mL EDTA tube. Specimens were transferred to Quest Laboratories (Wood Dale, IL, USA) for a complete blood count analysis using a Beckan/Coulter LH750 automated processor.</p>		

Variable	co2	Carbon Dioxide	Longitudinal										
Description	<p>Carbon Dioxide (Co2)-</p> <p>A standard procedure was used to collect blood samples. Using sterile technique, phlebotomists and nurses skilled in venipuncture collected the blood specimen in a 2-mL EDTA tube. Specimens were transferred to Quest Laboratories (Wood Dale, IL, USA) for a complete blood count analysis using a Beckan/Coulter LH750 automated processor.</p>												
Variable	crn	Creatinine	Longitudinal										
Description	<p>Creatnine blood level -</p> <p>A standard procedure was used to collect blood samples. Using sterile technique, phlebotomists and nurses skilled in venipuncture collected the blood specimen in a 2-mL EDTA tube. Specimens were transferred to Quest Laboratories (Wood Dale, IL, USA) for a complete blood count analysis using a Beckan/Coulter LH750 automated processor.</p>												
Variable	fasting	Fasting	Longitudinal										
Description	<p>Indicates whether blood was collected on fasting participant -</p> <p>A standard procedure was used to collect blood samples. Using sterile technique, phlebotomists and nurses skilled in venipuncture collected the blood specimen in a 2-mL EDTA tube. Specimens were transferred to Quest Laboratories (Wood Dale, IL, USA) for a complete blood count analysis using a Beckan/Coulter LH750 automated processor.</p> <table><tr><td>value</td><td>coding</td></tr><tr><td>1</td><td>yes</td></tr><tr><td>2</td><td>no</td></tr><tr><td>3</td><td>don't know</td></tr><tr><td>9</td><td>missing</td></tr></table>			value	coding	1	yes	2	no	3	don't know	9	missing
value	coding												
1	yes												
2	no												
3	don't know												
9	missing												
Variable	glucose	Glucose	Longitudinal										
Description	<p>Glucose level -</p> <p>These results can be fasting/non-fasting (see fasting variable).</p> <p>A standard procedure was used to collect blood samples. Using sterile technique, phlebotomists and nurses skilled in venipuncture collected the blood specimen in a 2-mL EDTA tube. Specimens were transferred to Quest Laboratories (Wood Dale, IL, USA) for a complete blood count analysis using a Beckan/Coulter LH750 automated processor.</p>												
Variable	hba1c	Hemoglobin A1c	Longitudinal										
Description	<p>hemoglobin A1c -</p> <p>A standard procedure was used to collect blood samples. Using sterile technique, phlebotomists and nurses skilled in venipuncture collected the blood specimen in a 2-mL EDTA tube. Specimens were transferred to Quest Laboratories (Wood Dale, IL, USA) for a complete blood count analysis using a Beckan/Coulter LH750 automated processor.</p>												
Variable	hdlchlstrl	HDL cholesterol	Longitudinal										
Description	<p>Value of HDL cholesterol -</p> <p>A standard procedure was used to collect blood samples. Using sterile technique, phlebotomists and nurses skilled in venipuncture collected the blood specimen in a 2-mL EDTA tube. Specimens were transferred to Quest Laboratories (Wood Dale, IL, USA) for a complete blood count analysis using a Beckan/Coulter LH750 automated processor.</p>												
Variable	hdlratio	HDL ratio	Longitudinal										
Description	<p>HDL ratio -</p> <p>A standard procedure was used to collect blood samples. Using sterile technique, phlebotomists and nurses skilled in venipuncture collected the blood specimen in a 2-mL EDTA tube. Specimens were transferred to Quest Laboratories (Wood Dale, IL, USA) for a complete blood count analysis using a Beckan/Coulter LH750 automated processor.</p>												
Variable	k	Potassium	Longitudinal										
Description	<p>Potassium -</p> <p>A standard procedure was used to collect blood samples. Using sterile technique, phlebotomists and nurses skilled in venipuncture collected the blood specimen in a 2-mL EDTA tube. Specimens were transferred to Quest Laboratories (Wood Dale, IL, USA) for a complete blood count analysis using a Beckan/Coulter LH750 automated processor.</p>												

Variable	ldchlstrl	LDL cholesterol	Longitudinal
Description	<p>LDL cholesterol level -</p> <p>A standard procedure was used to collect blood samples. Using sterile technique, phlebotomists and nurses skilled in venipuncture collected the blood specimen in a 2-mL EDTA tube. Specimens were transferred to Quest Laboratories (Wood Dale, IL, USA) for a complete blood count analysis using a Beckan/Coulter LH750 automated processor.</p>		

Variable	na	Sodium	Longitudinal
Description	<p>Sodium level -</p> <p>A standard procedure was used to collect blood samples. Using sterile technique, phlebotomists and nurses skilled in venipuncture collected the blood specimen in a 2-mL EDTA tube. Specimens were transferred to Quest Laboratories (Wood Dale, IL, USA) for a complete blood count analysis using a Beckan/Coulter LH750 automated processor.</p>		

Life Style(count: 10)

Life Style - Alcohol and Tobacco Use

Variable	alcohol_g	Grams of alcohol per day	Longitudinal
Other Forms	_bl		
References	<p>Negative affect and mortality in older persons.</p> <p>Wilson RS, Bienias JL, Mendes de Leon CF, Evans DA, Bennett DA</p> <p>Journal: American journal of epidemiology 2003 Nov 1; 158(9) 827-35</p>		
Description	<p>Grams of alcohol per day</p> <p>range: 0 to 234.6g</p> <p>Participant is asked to self report how much alcohol they consumed in past 12 months in three separate questions: beer, wine, and liquor. We use these questions to determine a drink per day estimate and then multiply this quantity by the grams per drink for that type and add the three amounts together.</p>		

Variable	ldai_bl	Lifetime Daily Alcohol Intake (LDAI) - baseline	Cross-sectional
References	<p>Negative affect and mortality in older persons.</p> <p>Wilson RS, Bienias JL, Mendes de Leon CF, Evans DA, Bennett DA</p> <p>Journal: American journal of epidemiology 2003 Nov 1; 158(9) 827-35</p>		
Description	<p>Lifetime Daily Alcohol Intake - Baseline</p> <p>Range: 0.0 to 6.0</p> <p>Value represents the amount of alcoholic drinks (beer, wine, or liquor) consumed per day expressed by participant during the period they drank the most in their lifetime. Maximum value of 6 represents 6 or more drinks per day during this period.</p>		

Variable	q3smo_bl	Smoking quantity - baseline	Cross-sectional
Description	<p>Question: During that period of your life when you were smoking the most, about how many cigarettes a day did you usually smoke? [ENTER NUMBER OF CIGARETTES: 1 PACK = 20 CIGARETTES]</p> <p>Label: Q3smo</p> <p>Length: 3</p> <p>Position: N/A (see SAS Input Stmt)</p> <p>Coding: Integer</p> <p>998 = REFUSAL (blaise code)</p> <p>999 = DON'T KNOW (blaise code)</p> <p>Comment: Answered in combination with variable: q4smo.</p>		

Variable	q4smo_bl	Smoking duration - baseline	Cross-sectional
Description	<p>Question: Altogether, about how many years did you smoke this much? [ENTER YEARS: 01 = 1 YEAR OR LESS]</p> <p>Label: Q4smo Length: 3 Position: N/A (see SAS Input Stmt) Coding: Integer</p> <p>998 = REFUSAL (blaise code) 999 = DON'T KNOW (blaise code)</p> <p>Comment: Answered in combination with variable: q3smo.</p>		

Variable	smoke_bl	Smoking at baseline	Cross-sectional
References	Negative affect and mortality in older persons. Wilson RS, Bienias JL, Mendes de Leon CF, Evans DA, Bennett DA Journal: American journal of epidemiology 2003 Nov 1; 158(9) 827-35		
Description	value coding 0 never smoked 1 present/former smoker Question: 1. Do you smoke cigarettes now? Question: 2. Did you ever smoke cigarettes regularly? allowable codes 1 = Yes 2 = No 8 = REFUSAL (blaise code) 9 = DON'T KNOW (blaise code)		

Variable	smoking	Smoking	Cross-sectional								
References	<p>The relation of cigarette smoking to incident Alzheimer's disease in a biracial urban community population. Aggarwal NT, Bienias JL, Bennett DA, Wilson RS, Morris MC, Schneider JA, Shah RC, Evans DA Journal: Neuroepidemiology 2006 ; 26(3) 140-6</p> <p>Negative affect and mortality in older persons. Wilson RS, Bienias JL, Mendes de Leon CF, Evans DA, Bennett DA Journal: American journal of epidemiology 2003 Nov 1; 158(9) 827-35</p>										
Description	<p>The variable is computed based on smoking related data gathered at the baseline interview.</p> <table><tr><td>value</td><td>coding</td></tr><tr><td>0</td><td>never smoked</td></tr><tr><td>1</td><td>former smoker</td></tr><tr><td>2</td><td>current smoker</td></tr></table>			value	coding	0	never smoked	1	former smoker	2	current smoker
value	coding										
0	never smoked										
1	former smoker										
2	current smoker										

Life Style - Physical Activity

Variable	bmi	Body mass index	Longitudinal
Other Forms	_lv, _bl		
References	<p>Change in body mass index and risk of incident Alzheimer disease. Buchman AS, Wilson RS, Bienias JL, Shah RC, Evans DA, Bennett DA Journal: Neurology 2005 Sep 27; 65(6) 892-7</p> <p>Body mass index in older persons is associated with Alzheimer disease pathology. Buchman AS, Schneider JA, Wilson RS, Bienias JL, Bennett DA Journal: Neurology 2006 Dec 12; 67(11) 1949-54</p> <p>Association between late-life social activity and motor decline in older adults. Buchman AS, Boyle PA, Wilson RS, Fleischman DA, Leurgans S, Bennett DA Journal: Archives of internal medicine 2009 Jun 22 ; 169(12) 1139-46</p>		
Description	<p>BMI - Body mass index</p> <p>BMI was calculated as weight in kilograms divided by height in meters squared.</p>		

Variable	htm	Height (meters)	Longitudinal
Other Forms	_lv, _bl		
Description	Participant measured height in meters.		

Variable	phys5itemsum	Summary of self reported physical activity measure (in hours) ROS/MAP	Longitudinal
Other Forms	_lv, _bl		
References	<p>Participation in cognitively stimulating activities and risk of incident Alzheimer disease. Wilson RS, Mendes De Leon CF, Barnes LL, Schneider JA, Bienias JL, Evans DA, Bennett DA Journal: JAMA : the journal of the American Medical Association 2002 Feb 13; 287(6) 742-8</p> <p>Physical activity and motor decline in older persons. Buchman AS, Boyle PA, Wilson RS, Bienias JL, Bennett DA Journal: Muscle & nerve 2007 Mar; 35(3) 354-62</p>		
Description	<p>This variable measures the physical activity the participant engages in. The score is the sum of hours/week in 5 categories of activities.</p> <p>walktime (Walking for exercise) yardtime (Gardening or yard work) caltime (Calisthenics or general exercise) biketime (Bicycle riding -including stationary bikes) swimtime (Swimming or water exercises)</p> <p>Physical activity (1) was assessed using questions adapted from the 1985 National Health Interview Survey. Minutes spent engaged in each activity were summed and expressed as hours of activity per week. In the 5 item version the time in hours per week for the 5 physical activities is measured.</p> <p>In ROS and MAP a similar self-report physical activity measure is available: phys5itemsum summarizes the hours/week involved in 5 activities taken from the National Health Interview Survey (Wilson et al JAMA,2002).</p> <p>Ref (1): McPhillips JB, Pellettera KM, Barrett-Connor E, Wingard DL, Criqui MH. Exercise patterns in a population of older adults. Am J Prev Med 1989;5:65-72.</p>		

Variable	wtkg	Weight (kg)	Longitudinal
Other Forms	_lv, _bl		
Description	Participant measured weight in kg.		

Medical Conditions(count: 14)**Medical Conditions - Blood Pressure**

Variable	bp11	Blood pressure measurement- sitting - trial 1	Longitudinal
Description	<p>Sitting blood pressure reading:</p> <p>The subject should be seated for five minutes prior to obtaining the seated blood pressure readings.</p> <p>systolic/diastolic</p>		

Variable	bp2	Blood pressure measurement- sitting - trial 2	Longitudinal
Description	<p>Second sitting blood pressure reading</p> <p>The subject should be seated for five minutes prior to obtaining the seated blood pressure readings.</p> <p>systolic/diastolic</p>		

Variable	bp3	Hx of Meds for HTN	Longitudinal
References	Relation of blood pressure to risk of incident Alzheimer's disease and change in global cognitive function in older persons. Shah RC, Wilson RS, Bienias JL, Arvanitakis Z, Evans DA, Bennett DA Journal: Neuroepidemiology 2006; 26(1) 30-6		
Description	Meds for HTN This question branches from lead question: Lead Question Baseline: Have you EVER been told by a doctor, nurse or therapist that you had...1. High blood pressure?: YES SUSPECT NO Follow-up: Since your interview on (date of last interview), have you been told by a doctor, nurse or therapist that you had...1. High blood pressure?: YES SUSPECT NO IF YES or SUSPECT, then: Has a doctor, nurse, or therapist (EVER- baseline only) told you to take medicine by mouth for your high blood pressure? value coding blank No HTN reported 1 Yes 2 No 8 REFUSAL 9 DON'T KNOW		

Variable	bp31	Blood pressure measurement- standing	Longitudinal
Description	<p>STANDING BLOOD PRESSURE READING</p> <p>Subject is requested to stand. The reading is repeated after 60 seconds.</p>		

Variable	hypertension_cum	Medical conditions - hypertension - cumulative	Longitudinal
References	<p>Relation of blood pressure to risk of incident Alzheimer's disease and change in global cognitive function in older persons. Shah RC, Wilson RS, Bienias JL, Arvanitakis Z, Evans DA, Bennett DA Journal: Neuroepidemiology 2006; 26(1) 30-6</p> <p>Depressive symptoms, cognitive decline, and risk of AD in older persons. Wilson RS, Barnes LL, Mendes de Leon CF, Aggarwal NT, Schneider JS, Bach J, Pilat J, Beckett LA, Arnold SE, Evans DA, Bennett DA Journal: Neurology 2002 Aug 13; 59(3) 364-70</p> <p>Participation in cognitively stimulating activities and risk of incident Alzheimer disease. Wilson RS, Mendes De Leon CF, Barnes LL, Schneider JA, Bienias JL, Evans DA, Bennett DA Journal: JAMA : the journal of the American Medical Association 2002 Feb 13; 287(6) 742-8</p> <p>Negative affect and mortality in older persons. Wilson RS, Bienias JL, Mendes de Leon CF, Evans DA, Bennett DA Journal: American journal of epidemiology 2003 Nov 1; 158(9) 827-35</p>		
Description	<p>Medical History: Hypertension - cumulative</p> <p>value coding 0 never reported in past history or in follow-up cycle up to this cycle (includes suspect or possible) 1 reported in past history or in at least 1 follow-up cycle up to this cycle</p> <p>Baseline (visit = 00) Have you ever been told by a doctor, nurse or therapist that you had high blood pressure?</p> <p>Follow-up (visit = other than 00) Since your interview on (date of last interview), have you been told by a doctor, nurse or therapist that you had high blood pressure?</p> <p>1 = Yes 2 = Suspect or possible 3 = No 8 = REFUSAL (blaise code) 9 = DON'T KNOW (blaise code)</p>		

Medical Conditions - Diabetes

Variable	dm_cum	Medical history - diabetes - cumulative	Longitudinal
References	<p>Participation in cognitively stimulating activities and risk of incident Alzheimer disease. Wilson RS, Mendes De Leon CF, Barnes LL, Schneider JA, Bienias JL, Evans DA, Bennett DA Journal: JAMA : the journal of the American Medical Association 2002 Feb 13; 287(6) 742-8</p> <p>Depressive symptoms, cognitive decline, and risk of AD in older persons. Wilson RS, Barnes LL, Mendes de Leon CF, Aggarwal NT, Schneider JS, Bach J, Pilat J, Beckett LA, Arnold SE, Evans DA, Bennett DA Journal: Neurology 2002 Aug 13; 59(3) 364-70</p> <p>Negative affect and mortality in older persons. Wilson RS, Bienias JL, Mendes de Leon CF, Evans DA, Bennett DA Journal: American journal of epidemiology 2003 Nov 1; 158(9) 827-35</p> <p>Diabetes and parkinsonian signs in older persons. Arvanitakis Z, Wilson RS, Bienias JL, Bennett DA Journal: Alzheimer disease and associated disorders 2007 Apr-Jun; 21(2) 144-9</p>		
Description	<p>Medical History - Diabetes - cumulative</p> <p>value coding 0 Answered No on all Hx questions related to diabetes and never indicated taking a diabetes med in past history or in follow-up cycle up to this cycle (includes suspect or possible) 1 Answered Yes to one or more Hx questions related to diabetes or reported taking a diabetes med in past history or in at least 1 follow-up cycle up to this cycle</p> <p>Code-book variables: q: Have you ever been told by a doctor, nurse or therapist that you had Diabetes, or sugar in the urine, or high blood sugar?</p> <p>q: Has a doctor, nurse or therapist, ever told you to take insulin or injections for your high blood sugar?</p> <p>q: Has a doctor, nurse, or therapist ever told you to take medicine by mouth for your high blood sugar?</p> <p>value coding 1 Yes 2 Suspect or possible 3 No 8 REFUSAL 9 DON'T KNOW</p> <p>Taking medication for diabetes (see variable = diabetes_rx)</p>		

Medical Conditions - Thyroid

Variable	thyroid_cum	Medical Conditions - thyroid disease - cumulative	Longitudinal
References	<p>Participation in cognitively stimulating activities and risk of incident Alzheimer disease. Wilson RS, Mendes De Leon CF, Barnes LL, Schneider JA, Bienias JL, Evans DA, Bennett DA Journal: JAMA : the journal of the American Medical Association 2002 Feb 13; 287(6) 742-8</p> <p>Depressive symptoms, cognitive decline, and risk of AD in older persons. Wilson RS, Barnes LL, Mendes de Leon CF, Aggarwal NT, Schneider JS, Bach J, Pilat J, Beckett LA, Arnold SE, Evans DA, Bennett DA Journal: Neurology 2002 Aug 13; 59(3) 364-70</p> <p>Negative affect and mortality in older persons. Wilson RS, Bienias JL, Mendes de Leon CF, Evans DA, Bennett DA Journal: American journal of epidemiology 2003 Nov 1; 158(9) 827-35</p>		
Description	<p>Medical History: THYROID DISEASE - cumulative</p> <p>value coding 0 never reported in past history or in follow-up cycle up to this cycle (includes suspect or possible) 1 reported in past history or in at least 1 follow-up cycle up to this cycle</p> <p>Baseline (visit = 00) Q: Have you ever been told by a doctor, nurse or therapist that you had thyroid disease?</p> <p>Follow-up (visit other than 00) Q: Since your interview on (insert date of last evaluation), have you been told by a doctor, nurse or therapist that you had thyroid disease?</p> <p>Allowable codes: 1 = Yes 2 = Suspect or possible 3 = No 8 = REFUSAL 9 = DON'T KNOW</p>		

Medical Conditions - Vascular

Variable	chf_cum	Medical Conditions - congestive heart failure - cumulative	Longitudinal
Description	<p>Medical Conditions - congestive heart failure - cumulative</p> <p>Coding 0 = never reported in past history or in follow-up cycle up to this cycle (includes suspect or possible) 1 = reported in past history or in at least 1 follow-up cycle up to this cycle</p> <p>Baseline (visit = 00) Q: Have you ever been told by a doctor, nurse or therapist that you had congestive heart failure?</p> <p>Follow-Up (visit other than 00) Q: Since your last interview on (date of previous evaluation) , have you been told by a doctor, nurse, or therapist that you had.....congestive heart failure?</p> <p>Allowable codes: 1 = Yes 2 = Suspect or possible 3 = No 8 = REFUSAL 9 = DON'T KNOW</p> <p>NOT AVAILABLE IN ROS.</p>		

Variable	claudication_cum Medical conditions - claudication -cumulative		Longitudinal
Description	Medical Conditions - Claudication - cumulative		
	Coding		
	0 = never reported pain in legs or only reported pain that did not include the calves, from baseline to this cycle		
	1 = reported pain in legs while walking which includes calves, in at least one cycle from baseline to this cycle		
	table1		
	value	coding	
	1	Yes	
	2	No	
	8	REFUSAL	
	9	DON'T KNOW	
	table2		
	value	coding	
	1	Pain includes calf/calves	
	2	Pain does not include calf	
	8	REFUSAL	
	9	DON'T KNOW	
	variable	coding	question
	legpain	table1	Do you get pain in either leg while walking?
	calf	table2	IF yes, in what part of your leg do you feel it? [IF CALVES NOT MENTIONED ASK: 'Anywhere else?' IF STILL NOT MENTIONED, CODE 2]

Variable	heart_cum	Medical Conditions - heart - cumulative	Longitudinal
References	<p>Participation in cognitively stimulating activities and risk of incident Alzheimer disease. Wilson RS, Mendes De Leon CF, Barnes LL, Schneider JA, Bienias JL, Evans DA, Bennett DA Journal: JAMA : the journal of the American Medical Association 2002 Feb 13; 287(6) 742-8</p> <p>Depressive symptoms, cognitive decline, and risk of AD in older persons. Wilson RS, Barnes LL, Mendes de Leon CF, Aggarwal NT, Schneider JS, Bach J, Pilat J, Beckett LA, Arnold SE, Evans DA, Bennett DA Journal: Neurology 2002 Aug 13; 59(3) 364-70</p> <p>Negative affect and mortality in older persons. Wilson RS, Bienias JL, Mendes de Leon CF, Evans DA, Bennett DA Journal: American journal of epidemiology 2003 Nov 1; 158(9) 827-35</p>		
Description	<p>Medical Conditions - Heart conditions - cumulative</p> <p>value coding 0 never reported in past history or in follow-up cycle up to this cycle (includes suspect or possible) 1 reported in past history or in at least 1 follow-up cycle up to this cycle</p> <p>Baseline (visit = 00) Q:Have you ever been told by a doctor, nurse or therapist that you had a heart attack or coronary, or coronary thrombosis, or coronary occlusion, or myocardial infarction?</p> <p>Follow-up (visit other than 00) Q:Since your last study interview on (insert date of last evaluation), have you been told by a doctor, nurse or therapist that you had a heart attack or coronary, or coronary thrombosis, or coronary occlusion, or myocardial infarction?</p> <p>Allowable codes: 1 = Yes 2 = Suspect or possible 3 = No 8 = REFUSAL 9 = DON'T KNOW</p>		

Variable	stroke_cum	Clinical Diagnoses - Stroke - cumulative	Longitudinal
References	<p>Participation in cognitively stimulating activities and risk of incident Alzheimer disease. Wilson RS, Mendes De Leon CF, Barnes LL, Schneider JA, Bienias JL, Evans DA, Bennett DA Journal: JAMA : the journal of the American Medical Association 2002 Feb 13; 287(6) 742-8</p> <p>Depressive symptoms, cognitive decline, and risk of AD in older persons. Wilson RS, Barnes LL, Mendes de Leon CF, Aggarwal NT, Schneider JS, Bach J, Pilat J, Beckett LA, Arnold SE, Evans DA, Bennett DA Journal: Neurology 2002 Aug 13; 59(3) 364-70</p> <p>Negative affect and mortality in older persons. Wilson RS, Bienias JL, Mendes de Leon CF, Evans DA, Bennett DA Journal: American journal of epidemiology 2003 Nov 1; 158(9) 827-35</p>		
Description	<p>Clinical Diagnoses - Stroke - cumulative</p> <p>Through review of self report questions, neurological exam (when available), cognitive testing, and interview of participant, clinician renders a diagnosis. The clinician is first presented with algorithmic diagnosis and has the ability to modify if necessary.</p> <p>value coding 0 Stroke not present (Possible stroke dx or stroke not present) in all cycles, from baseline to this cycle 1 Stroke present (Highly probable or probable stroke dx) reported in at least one cycle from baseline to this cycle</p> <p>Diagnosis of Stroke.</p> <p>value coding 1 Highly Probable 2 Probable 3 Possible 4 Not Present</p>		

Variable	vasc_3dis_sum Vascular disease burden (3 items w/o chf) ROS/MAP/MARS	Longitudinal
References	<p>Association of muscle strength with the risk of Alzheimer disease and the rate of cognitive decline in community-dwelling older persons.</p> <p>Boyle PA, Buchman AS, Wilson RS, Leurgans SE, Bennett DA</p> <p>Journal: Archives of neurology 2009 Nov ; 66(11) 1339-44</p>	
Description	<p>Vascular Disease Burden - 3 item version (available in ROS/MAP/MARS)</p> <p>This variable measures the participants vascular disease burden computed on the basis of self-report questions, clinical examination, and medication inspection. Score covers time frame from baseline, where any past history is covered, to current cycle.</p> <p>range: 0 to 3, higher score indicates greater vascular disease burden</p> <p>The score is the mean of following 3 scores multiplied by 3.</p> <ol style="list-style-type: none"> 1. Claudication - cumulative Coding <ul style="list-style-type: none"> 0 = never reported pain in legs or only reported pain that did not include the calves, from baseline to this cycle 1 = reported pain in legs while walking which includes calves, in at least one cycle from baseline to this cycle 2. Stroke - cumulative Through review of self report questions, neurological exam (when available), cognitive testing, and interview of participant, physician renders a diagnosis. Coding <ul style="list-style-type: none"> 0 = Stroke not present (Possible stroke dx or stroke not present) in all cycles, from baseline to this cycle 1 = Stroke present (Highly probable or probable stroke dx) reported in at least one cycle from baseline to this cycle 3. Heart conditions- heart attack, coronary, coronary thrombosis, coronary occlusion, or myocardial infarction - cumulative Coding <ul style="list-style-type: none"> 0 = never reported in past history or in follow-up cycle up to this cycle (includes suspect or possible) 1 = reported in past history or in at least 1 follow-up cycle up to this cycle <p>Boyle PA, Wilson RS, Aggarwal NT, Tang Y, Bennett DA. Mild cognitive impairment: risk of Alzheimer disease and rate of cognitive decline. Neurology. 2006;67(3):441445.</p>	

Variable	vasc_4dis_sum	Vascular disease burden (4 items) - MAP/MARS only	Longitudinal
References	<p>Association of muscle strength with the risk of Alzheimer disease and the rate of cognitive decline in community-dwelling older persons.</p> <p>Boyle PA, Buchman AS, Wilson RS, Leurgans SE, Bennett DA</p> <p>Journal: Archives of neurology 2009 Nov ; 66(11) 1339-44</p>		
Description	<p>Vascular Disease Burden - 4 item version (available in MAP/MARS, ROS does not have CHF questions).</p> <p>This variable measures the participants vascular disease burden computed on the basis of self-report questions, clinical examination, and medication inspection. Score covers time frame from baseline, where any past history is covered, to current cycle.</p> <p>range: 0 to 4, higher score indicates greater vascular disease burden</p> <p>The score is the mean of following 4 scores multiplied by 4.</p> <ol style="list-style-type: none"> 1. Claudication - cumulative Coding 0 = never reported pain in legs or only reported pain that did not include the calves, from baseline to this cycle 1 = reported pain in legs while walking which includes calves, in at least one cycle from baseline to this cycle 2. Stroke - cumulative Through review of self report questions, neurological exam (when available), cognitive testing, and interview of participant, physician renders a diagnosis. Coding 0 = Stroke not present (Possible stroke dx or stroke not present) in all cycles, from baseline to this cycle 1 = Stroke present (Highly probable or probable stroke dx) reported in at least one cycle from baseline to this cycle 3. Heart conditions- heart attack, coronary, coronary thrombosis, coronary occlusion, or myocardial infarction - cumulative Coding 0 = never reported in past history or in follow-up cycle up to this cycle (includes suspect or possible) 1 = reported in past history or in at least 1 follow-up cycle up to this cycle 4. Congestive Heart Failure - ever (CHF not available in ROS, see vasc_3dis_sum) Coding 0 = never reported in past history or in follow-up cycle up to this cycle (includes suspect or possible) 1 = reported in past history or in at least 1 follow-up cycle up to this cycle <p>Boyle PA, Wilson RS, Aggarwal NT, Tang Y, Bennett DA. Mild cognitive impairment: risk of Alzheimer disease and rate of cognitive decline. Neurology. 2006;67(3):441445.</p>		

Variable	vasc_risks_sum Vascular disease risk factors	Longitudinal
References	<p>Hypertension in women: the Women Take Heart project. Furumoto-Dawson AA, Pandey DK, Elliott WJ, de Leon Mendes CF, Al-Hani AJ, Hollenberg S, Camba N, Wicklund R, Black HR Journal: Journal of clinical hypertension (Greenwich, Conn.) 2003 Jan-Feb; 5(1) 38-46</p> <p>The relation of cigarette smoking to incident Alzheimer's disease in a biracial urban community population. Aggarwal NT, Bienias JL, Bennett DA, Wilson RS, Morris MC, Schneider JA, Shah RC, Evans DA Journal: Neuroepidemiology 2006 ; 26(3) 140-6</p>	
Description	<p>Vascular Disease Risk Factors - 3 item version (available in ROS/MAP/MARS)</p> <p>This variable includes the summary scores indicating each individuals vascular risk burden, computed on the basis of self-report questions on hypertension, diabetes, and smoking history. Score covers time frame from baseline, where any past history is covered, to current cycle.</p> <p>The mean of the following 3 calculations are multiplied by 3.</p> <p>range: 0 to 3, higher score indicates a higher vascular risk burden.</p> <p>Hypertension - cumulative Coding 0 = never reported in past history or in follow-up cycle up to this cycle (includes suspect or possible) 1 = reported in past history or in at least 1 follow-up cycle up to this cycle</p> <p>Diabetes (self report only) - cumulative Coding 0 = never reported in past history or in follow-up cycle up to this cycle (includes suspect or possible) 1 = reported in past history or in at least 1 follow-up cycle up to this cycle</p> <p>History of smoking - cumulative Coding 0 = never smoked 1 = former or current smoker</p> <p>Boyle PA, Wilson RS, Aggarwal NT, Tang Y, Bennett DA. Mild cognitive impairment: risk of Alzheimer disease and rate of cognitive decline. Neurology. 2006;67(3):441-445.</p>	

Motor and Gait(count: 2)

Variable	gait_speed Gait Speed - MAP	Longitudinal
References	<p>Relation of Driving Status to Incident Life Space Constriction in Community-Dwelling Older Persons: A Prospective Cohort Study. Shah RC, Maitra K, Barnes LL, James BD, Leurgans S, Bennett DA Journal: The journals of gerontology. Series A, Biological sciences and medical sciences 2012 Apr 30 ; 67(9) 984-9</p>	
Description	<p>Gait Speed in m/s unit. Based on condition of walk time.</p> <p>only available in MAP</p> <p>Gait speed was derived by timing with a stop watch how long it took a participant to walk 8 feet (2.4m) at their usual pace.</p>	

Variable	gripavg	Extremity strength	Longitudinal
References	Grip strength and the risk of incident Alzheimer's disease. Buchman AS, Wilson RS, Boyle PA, Bienias JL, Bennett DA Journal: Neuroepidemiology 2007 ; 29(1-2) 66-73		
Description	Grip strength (lbs). This variables measures the grip strength in participants. Grip strength was measured using the Jamar hydraulic hand dynamometer (Lafayette Instruments, Lafayette, Ind., USA). This sealed hydraulic system features a dual-scale readout that displays isometric grip force from 0 to 200 lb. Two trials of grip strength were obtained for each hand. The four trials were averaged together to yield a composite measure of grip strength. Buchman AS, Wilson RS, Bienias JL, Bennett DA. Gender differences in motor performance of older persons. Geriatr Gerontol Int 2005;5:59-65. (no pub med id- international)		