

Third Year Follow-Up Healthy Brain Dataset (HBrain_FU4)

1. Design

The Healthy Brain substudy in Health ABC was funded by Ancillary Study #AS05-79, with Catarina Rosano as principal investigator. This substudy was carried out at the Pittsburgh clinic only in participants who had had mobility performance measures in year 10, 11, or 12 (20 meters walk, chair stands, standing balance). Participants included in this study had not been hospitalized for major clinic events in the previous 3 months (fracture, psychiatric problem). In addition to this, subjects were not eligible for this protocol if they had received lithium within the preceding week or had a contraindication for 3 Tesla MRI (questionable history of metallic fragments, cardiac pacemaker, aneurysm clip, cochlear implants, shrapnel, history of metal fragments in eyes or other body parts, neurostimulators, weight of 250 lb or more, or claustrophobia). A total of 327 participants were enrolled in the study, during the latter half of Year 10, Year 11, or early in Year 12. Follow-up substudy visits are planned 1, 2 years, and 3 years after the “baseline” Healthy Brain visit. Ten of these participants received a brain MRI at 1.5 Tesla because they were ineligible for a 3 Tesla exam. A dataset from this group of 1.5 Tesla MRIs will be released separately. All following information pertain to the 314 participants with a 3 Tesla MRI.

2. Sample characteristics

The race and gender breakdown of this substudy is as follows:

	N
African-American males	42
African-American females	85
White males	91
White females	96
Total	314

The breakdown by clinic year in which the baseline Healthy Brain exam was completed is as follows:

	N
Year 10	112
Year 11	201
Year 12	1

3. Data sources

When a measurement was already done in the annual clinic visit corresponding to the participant's first year follow-up Healthy Brain exam, that measurement was used for this dataset. If the measurement was not part of that year's exam, it was administered as part of the Healthy Brain exam. In the case of participants enrolled in the Healthy Brain exam during the Year 10 clinic visit, some measures were added during the Year 11 clinic visit, specifically, ankle-arm blood pressure and the alcohol consumption questionnaire.

To avoid forcing analysts to figure out what data needed to be taken from what dataset, these data have been gathered together in the HBrain_FU4 dataset, even though these are redundant with data in other datasets. Since the variable names from different years had different prefixes, clinic visit-derived variables have been renamed to have a standard prefix of HB4. The variable COHORT (A=Year 10 baseline; B=Year 11 baseline; C=Year 12 baseline) has been included to allow analysts to include other data from the corresponding clinic visit, if desired. It may also be necessary to control for cohort during analysis of some variables

Gaitmat measurements were done in the Pittsburgh clinic in all participants. Information related to the gaitmat measurement can be found in Appendix I.

There were several sets of measurements unique to the Healthy Brain project, including a neurological examination and a Unified Parkinson Disease Rating Scale (UPDRS) – Motor Part (Part III) exam. These variables have a standard suffix of 3 for the first follow-up Healthy Brain exam. Annotated forms for the neurological examination (Appendix II, including calculated variable list) and UPDRS exam (Appendix III) show the variable names for these exams.

As part of the clinic visit in Year 11 for Cohort A and for Cohorts B and C as part of the Healthy Brain exam, a complete medication inventory was done and combined into one dataset. Since these data are in a one-line-per-participant-ingredient format, rather than a one-line-per-participant format, there is a separate HBMIFCOD_FU4 dataset containing the medication data.

4. Dataset structure and contents

The HBrain_FU4 dataset contains a single record per participant in the study.

Key variables:

HABCID

COHORT

The HBMIFCOD_FU4 dataset contains a single record per participant/medication/ingredient triad.

Key variables:

HABCID

COHORT

INGCODE

5. Special Missing Value Codes

SAS allows for stratification of missing values. The following missing values have been assigned:

. = ‘.: Missing form’
.A = ‘A: Not applicable’
.M=’M: Missing’

Description

. : Missing Form

Used when a value is missing because the entire form has not been entered or the participant does not exist in the database from the corresponding Reading Center.

A: Not Applicable

Used when a value is missing but the value is not required (due to simple skip pattern logic)

M:Missing

Used to flag missing values when the value is required (i.e., true missing values).

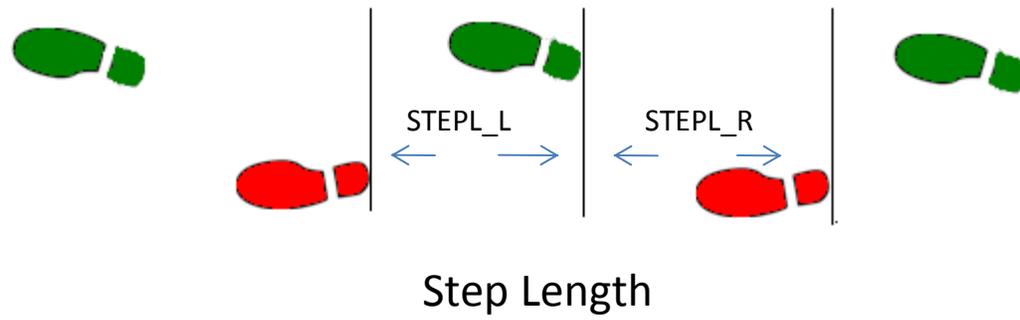
6. Dataset index formulation and key variable mapping

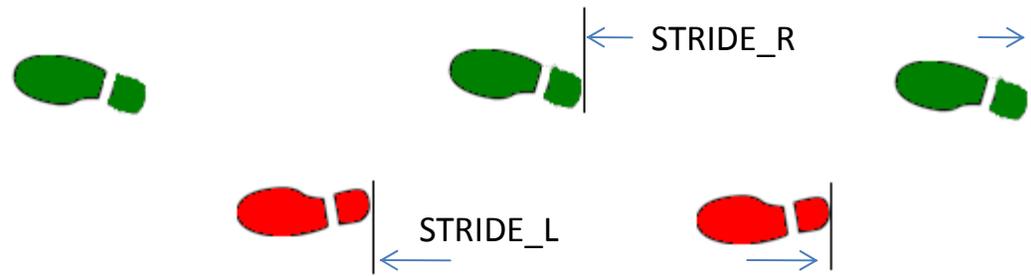
HBrain_FU4 and HBMIFCOD_FU4 are sorted by HABCID which is a unique identifier for each participant. HABCID/INCODE identifies a participant/medication ingredient pair in HBMIFCOD_FU4, but there can be duplicates when two different medications taken by the same participant at the same visit contain the same ingredient. HABCID/MIFNAME/INGCODE is a unique identifier for each record in HBMIFCOD_FU4. Since other Health ABC dataset are in a one-record-per-participant format, these data can be joined to HBMIFCOD_FU4 by HABCID, taking care to avoid problems caused by a one-to-many merge.

7. General strategies for manipulating and merging the data

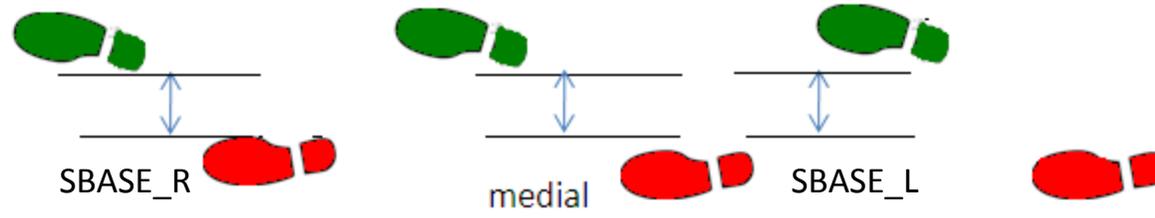
Because the Health ABC datasets are sorted by Health ABC Enrollment ID, the HABCID variable is most useful for merging with other datasets. COHORT will allow the analyst to merge these files with other clinic visit data for the applicable year. These data can also be joined to HBMIFCOD_FU4 by HABCID, taking care to avoid one-to-many merge problems.

Appendix I: Gaitmat Variables

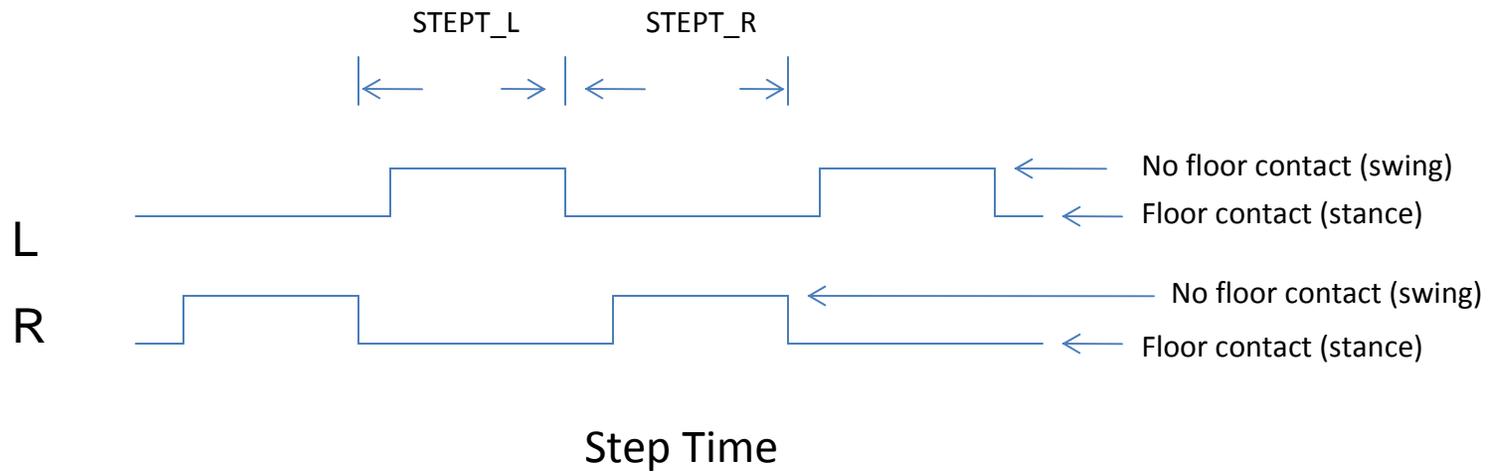


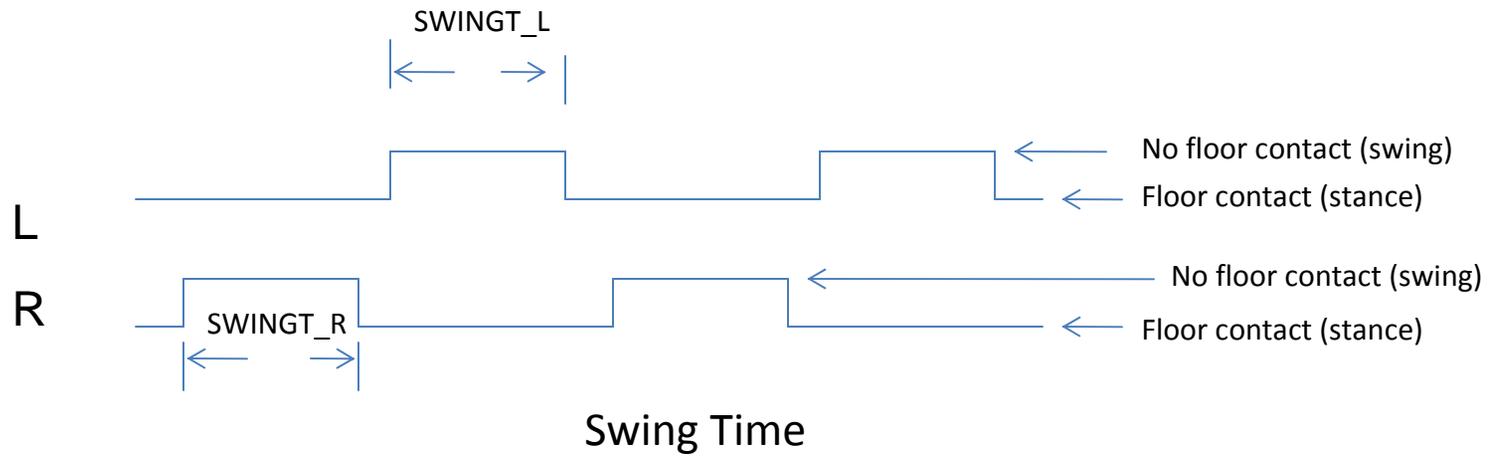


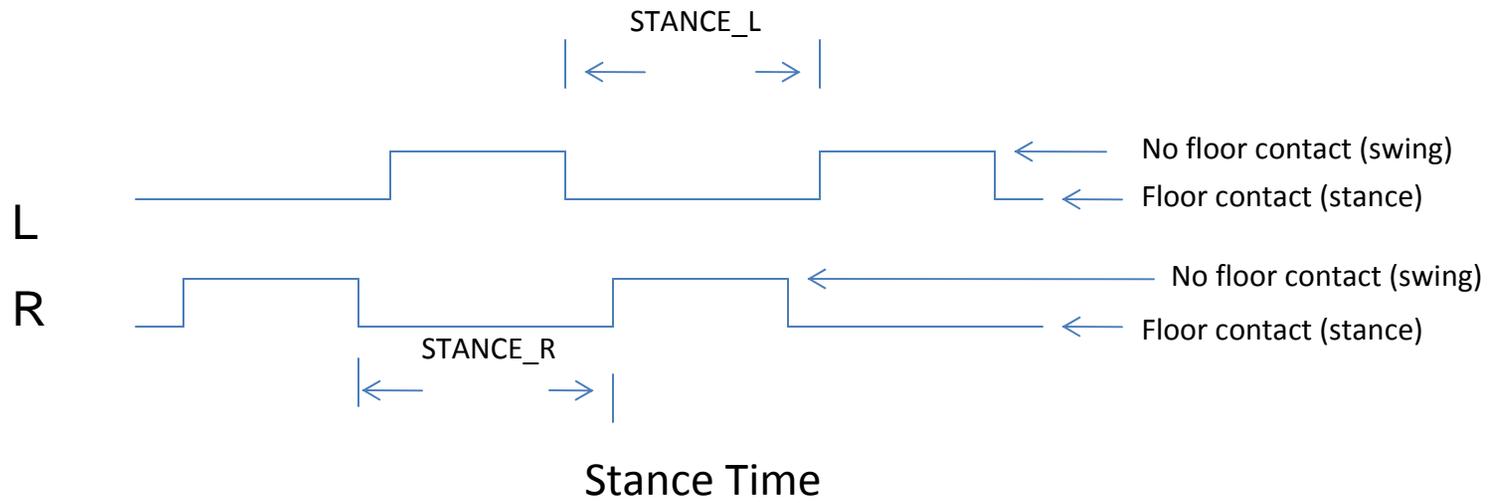
Stride Length

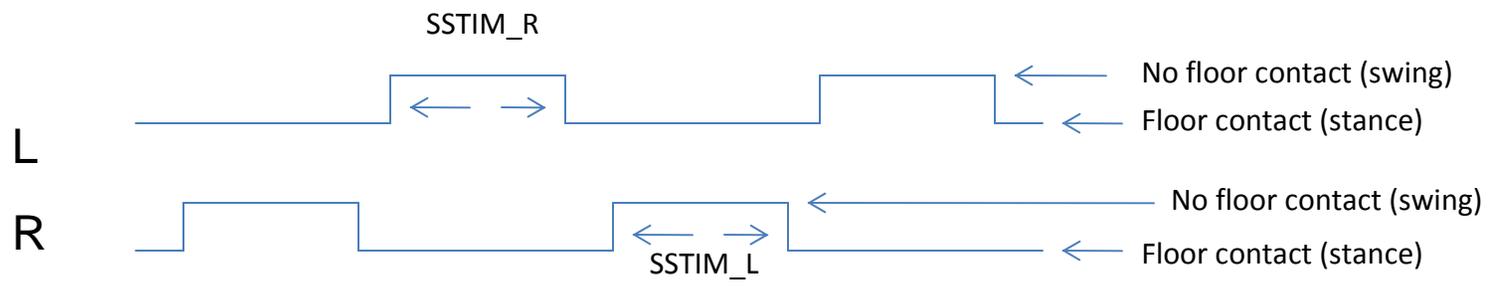


Support Base

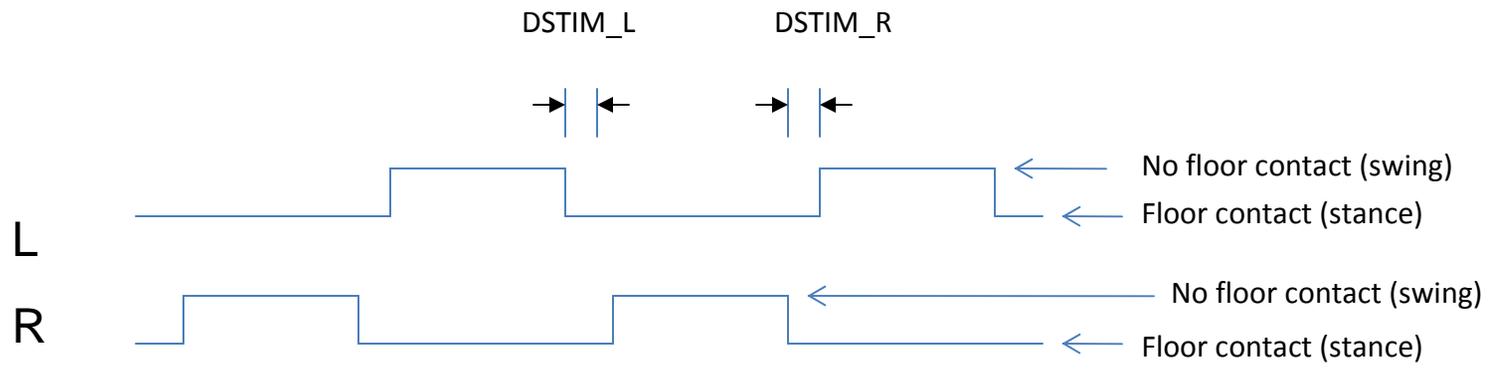








Single Support Time



Double Support Time

Gaitmat Variable List

Variable Name	Variable Description	Variable Label	Value Label
HB0DSTim_L	Mean time when the right foot is in contact with the floor and the left heel strikes the floor, to the time the left toe lifts off of the floor, while the right foot is still in contact with the floor.	Mean double support time, left foot	seconds
HB0DSTim_R	Mean time when the left foot is in contact with the floor and the right heel strikes the floor, to the time the right toe lifts off of the floor, while the left foot is still in contact with the floor.	Mean double support time, right foot	seconds
HB0GaitVel	The distance between the first switch closure of the first and last steps divided by the time between the earliest closures of the first and last steps. Formula: V = (last contact distance - first contact distance) / (last contact time - first contact time)	Last-first contact distance/last-first contact time	m/sec
HB0SBase_L	The distance between the innermost switch closure for the left foot to the innermost switch closure of the right foot on the previous step.	Mean base of support (medial boundaries, left foot)	meters
HB0SBase_R	The distance between the innermost switch closure for the right foot to the innermost switch closure of the left foot on the previous step	Mean base of support (medial boundaries), right foot	meters
HB0SSTim_L	Mean time when the right foot is swinging, which is from the time the right toe lifts off of the floor to the time the right heel strikes the floor. The left foot remains in contact with the floor	Mean single support time, left foot (equivalent to HB0SWINGT_R)	seconds
HB0SSTim_R	Mean time when the left foot is swinging which is from the time the left toe lifts off of the floor to the time the left heel strikes the floor. The right foot remains in contact with the floor	Mean single support time, right foot (equivalent to HB0SWINGT_L)	seconds
HB0Stance_L	Mean period when the left foot is in contact with the ground	Mean time left foot is in contact with ground, heel strike to toe lift	seconds

Variable Name	Variable Description	Variable Label	Value Label
HB0Stance_R	Mean time right foot is in contact with ground, heel strike to toe lift	Mean period when the right foot is in contact with the ground	seconds
HB0StepL_L	The mean distance between the first switch closure of right foot to the first switch closure of the left foot. (i.e. the distance traveled by the limb from initial contact of right foot to initial contact of the left foot)	Mean distance between right heel strike and left heel strike	meters
HB0StepL_R	The mean distance between the first switch closure of left foot to the first switch closure of the right foot. (i.e. the distance traveled by the limb from initial contact of left foot to initial contact of the right foot)	Mean distance between left heel strike and right heel strike	meters
HB0StepT_L	Time to complete one left step length	Mean time from right heel strike to left heel strike	seconds
HB0StepT_R	Time to complete one right step length	Mean time from left heel strike to right heel strike	seconds
HB0Stride_L	Mean distance traveled by the limb from initial floor contact of left foot to the next initial floor contact of the left foot	Mean distance between left heel strike and next left heel strike	meters
HB0Stride_R	Mean distance traveled by the limb from initial floor contact of right foot to the next initial floor contact of the right foot	Mean distance between right heel strike and next right heel strike	meters
HB0SwingT_L	Mean period when left toe lifts off the ground to the left heel strike (equivalent to HB0SSTIM_R)	Mean period when the left foot is off the ground	seconds
HB0SwingT_R	Mean period when right toe lifts off the ground to the right heel strike (equivalent to HB0SSTIM_L)	Mean period when the right foot is off the ground	seconds

9.9.5. Form.

HABCID			NEURODT0			NESTID0		
Participant MRI ID #	Ptc ID #	Acrostic	Date Form Completed			Staff ID		
				/	/			
			mm	dd	yyyy			

Health ABC Healthy Brain Project

NEUROLOGICAL EXAMINATION

COHORT **A** **B** **C**

Year of contact: Year 10 Year 11 Year 12

Type of contact? Clinic Home

Instructions: Ask the participant to remove their shoes and socks and to please sit on the examination table.

CRANIAL NERVES

1. CRANIAL NERVES III, IV, and VI

With the participant sitting in front of you, ask the participant to follow with the eyes a penlight that you move slowly to the left, right, up, and down, and then toward the bridge of the nose (convergence). Ask the participant if he/she can see the penlight when you occupy each of the 4 hemiquadrants of their visual field.

1.1 Visual neglect (if can not see the pen : check "yes")

Right VISNEGR0			Left VISNEGL0		
Yes	No	Unable to obtain	Yes	No	Unable to obtain
<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 99	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 99

1.2 Abnormal movements (Extraocular muscle palsies, nystagmus, or asymmetries in eye movement)

Right ABNMOVRO			Left ABNMOVL0		
Yes	No	Unable to obtain	Yes	No	Unable to obtain
<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 99	<input type="radio"/> 1	<input type="radio"/> 0	<input type="radio"/> 99

1.3. Any other visual disturbance? **VISDISTUR0**

1 Yes obtain 0 No 99 Unable to obtain

2. FACIAL NERVE VII **FACNV-VII0**

Ask the participant to imitate while you raise the eyebrows, smile, show the teeth, frown, or puff out cheeks. **If one side of the face looks different from the other, either at rest or during the test: check YES**

1 Yes obtain 0 No 99 Unable to obtain

3. CRANIAL NERVES IX AND X. **CRANV-IXX0**

Examine the oral cavity with the participant opening the mouth wide, protruding the tongue, and saying "ah" or yawning. **If asymmetries of the soft palate, uvula, or pharynx are present: check YES**

1 = Yes 0 = No 99 Unable to obtain

4. CRANIAL NERVES XII **CRANV-XII0**

Ask the participants to "stick out the tongue" and to move it from side to side.

Check Yes if any of the following appears: lateral deviations of the tongue from the midline, can't protrude tongue, can't move the tongue laterally, atrophy of tongue, fasciculations of the tongue's muscles.

1 = Yes 0 = No 99 Unable to obtain

5. CRANIAL NERVES DYSFUNCTION.

5.1 Is there any abnormality in cranial nerves VII, IX, X, or XII?

CRANDYS0

1 O = Yes	0 O = No	99 O Unable to obtain
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6. ANY COMMENT

CRANVCOM0

REFLEXES.

1. DEEP REFLEXES

1.1 Plantar reflex: Rub the lateral margin of the sole from heel to toes with a pointed instrument while performing the Jendrassik maneuver to distract the participant). **If there is an extension of the big toe or fanning of the other toes, check "toes back" (Babinski reflex, it is a pathological reflex).**

Right PLANTRR0				Left PLANTRL0			
Toes back	Toes down	Unable to obtain	Unclear	Toes back	Toes down	Unable to obtain	Unclear
1 O	2 O	99 O	4 O	1 O	2 O	99 O	4 O

1.2 Hoffman reflex: Rapidly flick the tip of the index finger. **If there is a flexion response of the thumb and the other fingers: check "yes" (this is pathological reflex).**

Right HOFFMANR0				Left HOFFMANL0			
Yes	No	Unable to obtain	Unclear	Yes	No	Unable to obtain	Unclear
1 O	0 O	99 O	4 O	1 O	0 O	99 O	4 O

Comments: _____

2. PRIMITIVE REFLEXES

2.1 Grasp reflex: rub the skin of the palm of the participant's hand. **Did the participant grasp your fingers?**

Right GRASPR0			Left GRASPL0		
Yes	No	Unable to obtain	Yes	No	Unable to obtain
1 O	0 O	99 O	1 O	0 O	99 O

2.2 Palmomental reflex: rub the thenar eminence. **Is there is a contraction of the muscles of the chin?**

Right PALMOR0			Left PALMOL0		
Yes	No	Unable to obtain	Yes	No	Unable to obtain
1 O	0 O	99 O	1 O	0 O	99 O

2.3 Glabellar reflex: gently tap between the eye brows. **Is the participant is unable to keep the eyes open? **GLABEL0****

1 O Yes	0 O No	3 O Unable to obtain
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2.4 Snout reflex: gently tap on the upper lip. **Is there is a reflexive sucking or puckering response? **SNOUT0****

1 O Yes	0 O No	3 O Unable to obtain
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Comments: _____

3. OTHER DEEP REFLEXES

	Right					Left				
	Normal	Absent	Diminished	Increased	N/a	Normal	Absent	Diminished	Increased	N/A
a. Biceps BICEPSR0	1	2	3	4	5	1	2	3	4	5
b. Triceps TRICEPSR0	1	2	3	4	5	1	2	3	4	5
c. Brachioradialis BRACHIOR0	1	2	3	4	5	1	2	3	4	5
d. Patella PATELLAR0	1	2	3	4	5	1	2	3	4	5
e. Achilles ACHILLER0	1	2	3	4	5	1	2	3	4	5
Comments: OTHRDRCOM0										

MOTOR EXAM

1. STRENGTH:

1.1. ARMS: Ask the participant to stand up and with eyes closed, to extend both arms frontally for 10 seconds, as if carrying a large tray. If dropping of the arm(s) is observed before the 10 seconds, check "abnormal".

Right ARMSR0			Left ARMSL0		
Abnormal	Normal	Unable to obtain	Abnormal	Normal	Unable to obtain
1	2	99	1	2	99
Comment : ARMSCOMM0					

1.2 LEGS: Ask the participant to lie supine on a bed, maintaining the hips and knees flexed at 90° for 10 seconds with eyes closed. If dropping of the leg(s) is observed before the 10 seconds, check "abnormal".

Right LEGSR0			Left LEGL0		
Abnormal	Normal	Unable to obtain	Abnormal	Normal	Unable to obtain
1	2	99	1	2	99
Comment : LEGSCOMM0					

2. ABNORMAL MOVEMENTS

Ask the participant to sit down. Alternatively flex and extend the participant's elbows and knees.

	Right			Left		
	Present	Absent	Unable to obtain	Present	Absent	Unable to obtain
a. Cogwheeling Leg COGLEGR0	1	2	99	1	2	99
b. Cogwheeling Arm COGARMR0	1	2	99	1	2	99
c. Spasticity Leg SPASLEGR0	1	2	99	1	2	99
d. Spasticity Arm SPASARMR0	1	2	99	1	2	99
e. Myoclonus Leg MYOCLEGR0	1	2	99	1	2	99
f. Myoclonus Arm MYOCARMR0	1	2	99	1	2	99
Comment : OTHRAMCOM0						

Cogwheeling, is when rigidity and tremor are present at the same time, the examiner may be able to feel that the passive flexion or extension of the leg or arm results in a series of catches in rapid succession.

Spasticity, is a state of hypertonicity or increase over the normal tone of a muscle, with heightened deep tendon reflexes.

Myoclonus, is twitching or spasm of a muscle or a group of muscles.

SENSORY SYSTEM

Instructions: Ask the participant to lie supine and close the eyes

1. TOUCH.

Use the von Frey nylon monofilaments to touch the skin of the external malleolus of each leg. Ask to tell you when he/she can feel the touch. **If the participant can not tell the touch, check "Abnormal". Repeat twice for each filament.**

	Right			Left		
	Abnormal	Normal	Unable to obtain	Abnormal	Normal	Unable to obtain
F431_T1R0 a. Filament 4.31 trial 1	1 ○	2 ○	99 ○	1 ○	2 ○	99 ○ F431_T1L0
F431_T2R0 b. Filament 4.31 trial 2	1 ○	2 ○	99 ○	1 ○	2 ○	99 ○ F431_T2L0
F432_T1R0 c. Filament 4.32 trial 1	1 ○	2 ○	99 ○	1 ○	2 ○	99 ○ F432_T1L0
F432_T2R0 d. Filament 4.32 trial 2	1 ○	2 ○	99 ○	1 ○	2 ○	99 ○ F432_T2L0
Comment : TOUCHCOM0						

2. PIN/PRICK.

Use a pin to touch skin of the external malleolus of each leg, twice for each side. Ask to tell you when he/she can feel the touch. **If the participant can not tell the touch, check "Abnormal"**

	Right			Left		
	Abnormal	Normal	Unable to obtain	Abnormal	Normal	Unable to obtain
a. Trial 1 PIN_T1R0	1 ○	2 ○	99 ○	1 ○	2 ○	99 ○ PIN_T1L0
b. Trial 2 PIN_T2R0	1 ○	2 ○	99 ○	1 ○	2 ○	99 ○ PIN_T2L0
Comment : PINCOM0						

3. VIBRATION.

Apply the vibrating fork and keep it steady on the distal interphalangeal joints of the index finger and of the big toe. Ask the participant to report whether he/she feels any vibration and indicate when the vibration disappears. **If the participant feels the vibration for <10sec: check "Normal"**

	Right			Left		
	Abnormal	Normal	Unable to obtain	Abnormal	Normal	Unable to obtain
a. Index finger VIBFINR0	1 ○	2 ○	99 ○	1 ○	2 ○	99 ○ VIBFINL0
b. Big toe VIBTOER0	1 ○	2 ○	99 ○	1 ○	2 ○	99 ○ VIBTOEL0
Comment : VIBCOM0						

4. SENSE OF POSITION.

Using a goniometer, position the right ankle at -10°, -20°, and -30° from the neutral position. Ask the participant to place the left ankle in the same position. **If the left ankle is outside ± 5° of the right ankle check ABNORMAL.** Repeat the same procedure for the opposing ankle.

	Right			Left		
	Abnormal	Normal	Unable to obtain	Abnormal	Normal	Unable to obtain
a. Position: -10 POSIT10R0	1 ○	2 ○	99 ○	1 ○	2 ○	99 ○ POSIT10L0
b. Position: -20 POSIT20R0	1 ○	2 ○	99 ○	1 ○	2 ○	99 ○ POSIT20L0
c. Position: -30 POSIT30R0	1 ○	2 ○	99 ○	1 ○	2 ○	99 ○ POSIT30L0
Comment : POSITCOM0						

5. STEREOGNOSIS. **STEREO0**

Place four (4) objects in the palm of the participant's dominant hand (two different coins, a safety pin, and a key),. Place the objects one at a time. Ask the participant to recognize the objects. Do not give other specific instructions (e.g. they are allowed to move them around in their hands). **Indicate the number of objects that the participant recognized.**

0○ = no objects **1**○ = 1 object **2**○ = 2 objects **3**○ = 3 objects **4**○ = 4 objects **99**○ Unable to obtain

Comment: **STEREOCOM0**

6. GRAPHESTESIA.

Using a pointed instrument draw a line, a circle and a plus sign on the sole of the foot. Draw the symbols one at a time and after you draw each symbol, ask the participant to recognize the symbol. Indicate the number of symbols that the participant recognized

	RIGHT GRAPHNORO			LEFT GRAPHNOLO		
	Abnormal	Normal	Unable to obtain	Abnormal	Normal	Unable to obtain
a. 1 symbol	1					
b. 2 symbols		2				
c. 3 symbols			3			
d. Does not recognize any symbol			97			
e. unable to obtain			99			

Comment: **GRAPHCOM0**

COORDINATION/DYSMETRIA

1. HEEL TO KNEE.

Ask the participant to lie supine. Ask to place the heel on the opposite knee and then back on the table, and to repeat this movement as quickly as possible without making mistakes. Check "abnormal" if movements are off target.

	RIGHT HLKNEERO			LEFT HLKNEELO		
	Abnormal	Normal	Unable to obtain	Abnormal	Normal	Unable to obtain
	1	2	99	1	2	99

Comment: **HLKNEECOM0**

2. HEEL TO SHIN.

Ask the participant to lie supine. Ask to place the right heel on the left shin just below the knee, and then slide it down to the foot, repeating this movement sequentially for 10 times. Record the time needed to complete 10 movements. Check "abnormal" if the movements lack rhythm and the time to complete the 10 movements is <13 seconds.

	RIGHT HLSHINRO			LEFT HLSHINLO		
	Abnormal	Normal	Unable to obtain	Abnormal	Normal	Unable to obtain
	1	2	99	1	2	99

Comment: **HLSHINCOM0**

3. FINGER-TO-NOSE:

Have the participant comfortably seated. Ask to extend the finger and touch the nose, and then to touch one specific point on the arm of the chair. After a few training trials, ask the participant to repeat these movements in sequence with the eyes closed, as quickly and precisely as possible. Check "abnormal" if movements are off target.

	RIGHT FINGNORO			LEFT FINGNOLO		
	Abnormal	Normal	Unable to obtain	Abnormal	Normal	Unable to obtain
	1	2	99	1	2	99

Comment: **FINGNOCOM0**

4. HANDS MOVEMENTS:

Have the participant comfortably seated, with palms on the thighs. Ask to rapidly lift the hands, turn them upside down, and come back to the initial position. Ask to repeat as quickly as possible. Count until ten then ask to stop. Check "abnormal" if movements are hesitant or not consistent with instructions (e.g.: lifts but does not turn hands).

	RIGHT HANDMOVRO			LEFT HANDMOVLO		
	Abnormal	Normal	Unable to obtain	Abnormal	Normal	Unable to obtain
	1	2	99	1	2	99

Comment: **HANDMOVCOM0**

5. ROMBERG TEST

Ask the participant to stand still with their feet together, with their eyes open and then closed. Time for how long the participant can hold the balance (Stop timing at 30 seconds)

	Eyes open ROMBOPEN0			Eyes closed ROMBCLOS0		
	Yes	No	Unable to obtain	Yes	No	Unable to obtain
Hold balance for <30 sec	1	0	99	1	0	99

Comment: **ROMBCOM0**

The CONTENTS Procedure

Data Set Name	DFU4.HBRAIN_FU4	Observations	314
Member Type	DATA	Variables	293
Engine	V9	Indexes	0
Created	Wednesday, April 17, 2013 11:56:24 AM	Observation Length	5872
Last Modified	Wednesday, April 17, 2013 11:56:24 AM	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	WINDOWS_32		
Encoding	wlatin1 Western (Windows)		

Engine/Host Dependent Information

Data Set Page Size	12288
Number of Data Set Pages	162
First Data Page	5
Max Obs per Page	2
Obs in First Data Page	1
Number of Data Set Repairs	0
Filename	V:\Data Analysis File\Programs\Substudy Programs\HealthyBrain\HB201304Final\hbrain_fu4.sas7bdat
Release Created	9.0202M0
Host Created	XP_PRO

The CONTENTS Procedure

Variables in Creation Order						
#	Variable	Type	Len	Format	Informat	Label
1	habcid	Num	8	11.	11.	Health ABC Participant ID
2	Cohort	Char	50	\$1.	\$50.	Cohort
3	HB4AASTID	Char	50	\$50.	\$50.	Ankle-Arm BP: Staff ID
4	HB4AAIR	Num	8			Ankle-arm index, rt leg
5	HB4AAIL	Num	8			Ankle-arm index, lt leg
6	HB4MINAAI	Num	8			Lowest ankle-arm index
7	HB4LOWAAI	Num	8			Ankle-arm BP: Lower extremity arterial disease index
8	HB4AABPREASL	Num	8	AABP.		Ankle-Arm BP: Reason not done, left leg
9	HB4AABPREASR	Num	8	AABP.		Ankle-Arm BP: Reason not done, right leg
10	FU4_Date	Num	8	DATETIME19.	DATETIME19.	Date of 4th Follow-Up Visit from Baseline
11	HB4CES_D	Num	8			CES-D score
12	HB4WTSTID	Char	50	\$50.	\$50.	Weight:Staff ID
13	HB4SH	Num	8			Average standing height (mm)
14	HB4WTK	Num	8			Weight, kg
15	HB4SYSBP	Num	8			Avg sitting systolic BP, mm Hg
16	HB4DIABP	Num	8			Avg sitting diastolic BP, mm Hg
17	HB4DSSTID	Char	50	\$50.	\$50.	Digit Symbol Substitution Test Staff ID
18	HB4DSS_COMP	Num	8	11.	11.	DSS:Number completed
19	HB4DSS_INCOR	Num	8	11.	11.	DSS:Number incorrect
20	HB4DSS	Num	8			Digit Symbol Score
21	HB4StepL_L	Num	8			Gaitmat: Mean distance between right heel strike and left heel strike (m)
22	HB4StepT_L	Num	8			Gaitmat: Mean time from right heel strike to left heel strike (sec)
23	HB4SwingT_L	Num	8			Gaitmat: Mean period when left foot is completely off ground (equivalent to HB0SSTIM_R) (sec)
24	HB4Stance_L	Num	8			Gaitmat: Mean time left foot is in contact with ground, heel strike to toe lift (sec)
25	HB4SSTim_L	Num	8			Gaitmat: Mean single support time, left foot (equivalent to HB0SWINGT_R) (sec)
26	HB4DSTim_L	Num	8			Gaitmat: Mean double support time, left foot (sec)
27	HB4SBase_L	Num	8			Gaitmat: Mean base of support (medial boundaries), left foot (m)
28	HB4Stride_L	Num	8			Gaitmat: Mean distance between left heel strike and next left heel strike (m)

The CONTENTS Procedure

Variables in Creation Order						
#	Variable	Type	Len	Format	Informat	Label
29	HB4GaitVel	Num	8			Gaitmat: Mean Last-first contact distance/last-first contact time (m/sec)
30	HB4StepL_R	Num	8			Gaitmat: Mean distance between left heel strike and right heel strike (m)
31	HB4StepT_R	Num	8			Gaitmat: Mean time from left heel strike to right heel strike (sec)
32	HB4SwingT_R	Num	8			Gaitmat: Mean period when right foot is completely off ground (equivalent to HB0SSTIM_L) (sec)
33	HB4Stance_R	Num	8			Gaitmat: Mean time right foot is in contact with ground, heel strike to toe lift (sec)
34	HB4SSTim_R	Num	8			Gaitmat: Mean single support time, right foot (equivalent to HB0SWINGT_L) (sec)
35	HB4DSTim_R	Num	8			Gaitmat: Mean double support time, right foot (sec)
36	HB4SBase_R	Num	8			Gaitmat: Mean base of support (medial boundaries), right foot (m)
37	HB4Stride_R	Num	8			Gaitmat: Mean distance between right heel strike and next right heel strike (m)
38	HB4KCSSTID	Char	50	\$50.	\$50.	Kin-Com:Staff ID
39	HB4PKTORQ	Num	8	11.	11.	KinCom: Peak Torque
40	HB4AVTORQ	Num	8	11.	11.	KinCom: Average Torque
41	HB4CSSTID	Char	50	\$50.	\$50.	Chair Stands Staff ID
42	HB4ABLE5CS	Num	8			DID 5 CHAIR STANDS YES=1
43	HB4CHR5PACE	Num	8			CHAIR STANDS PER SECOND
44	HB4CAT5CS	Num	8			EPESE SCORE FOR CHAIR STANDS
45	HB4CSRATIO	Num	8			CHAIR STANDS PERFORMANCE RATIO
46	HB4SBSCORE	Num	8			EPESE SCORE FOR STANDING BALANCE
47	HB4FSBTIME	Num	8			Standing Balance Test Time (0-90)
48	HB4FSBRATIO	Num	8			Standing Balance Time Ratio
49	HB4SIXMWTM	Num	8			Time to walk 6M (sec)
50	HB4UWPACE	Num	8			WALKING SPEED (M/SEC) OVER 3,4, or 6M
51	HB4UWSCR	Num	8			EPESE SCORE FOR WALKING SPEED
52	HB4NWTIME	Num	8			Time to walk a 20cm wide 6M course (sec)
53	HB4NWPACE	Num	8			Walking speed for narrow walk 6M (m/sec)
54	HB4NWSCORE	Num	8			EPESE CATEGORY FOR NARROW WALK
55	HB4NWSCOREQ	Num	8			% DIFF BTW NARROW & USUAL WALKS
56	HB4TMMSTID	Char	50	\$50.	\$50.	Teng Mini-Mental State Exam Staff ID

The CONTENTS Procedure

Variables in Creation Order						
#	Variable	Type	Len	Format	Informat	Label
57	HB4MMMScore	Num	8	11.	11.	Teng 3MS score
58	HB4VISDT	Num	8	DATETIME19.	DATETIME19.	Interview Date
59	HB4INTSTID	Char	50	\$50.	\$50.	Interview Staff ID
60	HB4ESQUAL	Num	8			At present, how is your eyesight?
61	HB4DA12MO	Num	8			Drinks per week during past 12 mos
62	HB4MORE	Num	8			Did you ever drink more than now
63	HB4DA5XDA	Num	8			Ever drink >= 5 drinks every day
64	HB4DA5X12	Num	8			Past 12 mos, >= 5 drinks/day
65	HB4DIAB	Num	8	YNDK.		Diabetic as of HBrain Follow-Up 4 visit?
66	HB4DARND	Num	8			Primary reason for not drinking
67	NEUSTATUS4	Char	255	\$255.	\$255.	Neuro Exam: Status of 4th Follow-Up neuro exam
68	CRANVCOM4	Char	150	150.	\$59.	Neuro Exam: 6. Any comment
69	ARMSCOMM4	Char	150	\$150.	\$1.	Neuro Exam: 2.1 Arms Comments
70	LEGSCOMM4	Char	150	\$150.	\$1.	Neuro Exam: 2.2 Legs Comments
71	OTHRDRCOM4	Char	150	\$150.	\$70.	Neuro Exam: 3. Comments for Other Deep Reflexes section
72	OTHRAMCOM4	Char	150	\$150.	\$68.	Neuro Exam: Comments for Abnormal Movements section
73	TOUCHCOM4	Char	150	\$150.	\$1.	Neuro Exam: Comments for Touch section
74	PINCOM4	Char	150	\$150.	\$1.	Neuro Exam: Comments for Pin/Prick section
75	VIBCOM4	Char	150	\$150.	\$1.	Neuro Exam: Comments for Vibration section
76	POSITCOM4	Char	150	\$150.	\$1.	Neuro Exam: Comments for Sense of Position section
77	STEREOCOM4	Char	150	\$150.	\$1.	Neuro Exam: Comments for Stereognosis section
78	GRAPHCOM4	Char	150	\$150.	\$61.	Neuro Exam: Comments for Graphesthesia section
79	HLKNEECOM4	Char	150	\$150.	\$1.	Neuro Exam: Comments for Heel to Knee section
80	HLSHINCOM4	Char	150	\$150.	\$1.	Neuro Exam: Comments for Heel to Shin section
81	FINGNOCOM4	Char	150	\$150.	\$1.	Neuro Exam: Comments for Finger to Nose section
82	HANDMOVCOM4	Char	150	\$150.	\$1.	Neuro Exam: Comments for Hand Movements section
83	ROMBCOM4	Char	200	\$200.	\$177.	Neuro Exam: Comments for Romberg Test section
84	NEURODT4	Num	8	DATETIME19.	DATETIME19.	Neuro Exam: Date Form Completed
85	NESTID4	Char	50	\$50.	\$50.	Staff ID# for Neurological Exam
86	VISNEGR4	Num	8	YNDK.	11.	Neuro Exam: 1.1 Right: Visual Neglect: (1 = Yes, 0 = No, 99 = Unable to obtain)
87	VISNEGL4	Num	8	YNDK.	11.	Neuro Exam: 1.1 Left: Visual Neglect: (1 = Yes, 0 = No, 99 = Unable to obtain)

The CONTENTS Procedure

Variables in Creation Order						
#	Variable	Type	Len	Format	Informat	Label
88	ABNMOVR4	Num	8	YNDK.	11.	Neuro Exam: 1.2 Right: Abnormal Movement (1 = Yes, 0 = No, 99 = Unable to obtain)
89	ABNMOVL4	Num	8	YNDK.	11.	Neuro Exam: 1.2 Left: Abnormal Movement (1 = Yes, 0 = No, 99 = Unable to obtain)
90	VISDISTUR4	Num	8	YNDK.	11.	Neuro Exam: 1.3 Any other visual disturbance? (1 = Yes, 0 = No, 99 = Unable to obtain)
91	FACNV_VII4	Num	8	YNDK.	11.	Neuro Exam: 2. Facial Nerve VII: If one side of the face looks difference from the other, check YES (1 = Yes, 0 = No, 99 = Unable to obtain)
92	CRANV_IXX4	Num	8	YNDK.	11.	Neuro Exam: 3. Cranial Nerves IX and X: If asymmetries of the soft palate (1 = Yes, 0 = No, 99 = Unable to obtain)
93	CRANV_XII4	Num	8	YNDK.	11.	Neuro Exam: 4. Cranial Nerves XII: Lateral deviations of the tongue (1 = Yes, 0 = No, 99 = Unable to obtain)
94	CRANDYS4	Num	8	YNDK.	11.	Neuro Exam: 5. Cranial Nerves Dysfunction: Is there any abnormality in VII, IX, X, or XII? (1 = Yes, 0 = No, 99 = Unable to obtain)
95	PLANTRR4	Num	8	TOES.	11.	Neuro Exam: 1.1 Right: Plantar Reflex ... (1 = Toes back, 2 = Toes down, 99 = Unable to obtain, 4 = Unclear)
96	PLANTRL4	Num	8	TOES.	11.	Neuro Exam: 1.1 Left: Plantar Reflex ... (1 = Toes back, 2 = Toes down, 99 = Unable to obtain, 4 = Unclear)
97	HOFFMANR4	Num	8	YNDK.	11.	Neuro Exam: 1.2 Right: Hoffman Reflex ... (1 = Yes, 0 = No, 99 = Unable to obtain, 4 = Unclear)
98	HOFFMANL4	Num	8	YNDK.	11.	Neuro Exam: 1.2 Left: Hoffman Reflex ... (1 = Yes, 0 = No, 99 = Unable to obtain, 4 = Unclear)
99	GRASPR4	Num	8	YNDK.	11.	Neuro Exam: 2.1 Right: Grasp reflex ... (1 = Yes, 0 = No, 99 = Unable to obtain)
100	GRASPL4	Num	8	YNDK.	11.	Neuro Exam: 2.1 Left: Grasp reflex ... (1 = Yes, 0 = No, 99 = Unable to obtain)
101	PALMOR4	Num	8	YNDK.	11.	Neuro Exam: 2.2 Right: Palmomental Reflex ... (1 = Yes, 0 = No, 99 = Unable to obtain)
102	PALMOL4	Num	8	YNDK.	11.	Neuro Exam: 2.2 Left: Palmomental Reflex ... (1 = Yes, 0 = No, 99 = Unable to obtain)
103	GLABEL4	Num	8	YNDK.	11.	Neuro Exam: 2.3 Glabellar Reflex ... (1 = Yes, 0 = No, 3 = Unable to obtain)
104	SNOUT4	Num	8	YNDK.	11.	Neuro Exam: 2.4 Snout Reflex ... (1 = Yes, 0 = No, 3 = Unable to obtain)
105	BICEPSR4	Num	8	NORMABX.	11.	Neuro Exam: 3a. Right: Biceps (1 = Normal, 2 = Absent, 3 = Diminished, 4 = Increased, 5 = N/A)
106	BICEPSL4	Num	8	NORMABX.	11.	Neuro Exam: 3a. Left: Biceps (1 = Normal, 2 = Absent, 3 = Diminished, 4 = Increased, 5 = N/A)
107	TRICEPSR4	Num	8	NORMABX.	11.	Neuro Exam: 3b. Right: Triceps (1 = Normal, 2 = Absent, 3 = Diminished, 4 = Increased, 5 = N/A)
108	TRICEPSL4	Num	8	NORMABX.	11.	Neuro Exam: 3b. Left: Triceps (1 = Normal, 2 = Absent, 3 = Diminished, 4 = Increased, 5 = N/A)

The CONTENTS Procedure

Variables in Creation Order						
#	Variable	Type	Len	Format	Informat	Label
109	BRACHIOR4	Num	8	NORMABX.	11.	Neuro Exam: 3c. Right: Brachioradialis (1 = Normal, 2 = Absent, 3 = Diminished, 4 = Increased, 5 = N/A)
110	BRACHIOL4	Num	8	NORMABX.	11.	Neuro Exam: 3c. Left: Brachioradialis (1 = Normal, 2 = Absent, 3 = Diminished, 4 = Increased, 5 = N/A)
111	PATELLAR4	Num	8	NORMABX.	11.	Neuro Exam: 3d. Right: Patella (1 = Normal, 2 = Absent, 3 = Diminished, 4 = Increased, 5 = N/A)
112	PATELLAL4	Num	8	NORMABX.	11.	Neuro Exam: 3d. Left: Patella (1 = Normal, 2 = Absent, 3 = Diminished, 4 = Increased, 5 = N/A)
113	ACHILLER4	Num	8	NORMABX.	11.	Neuro Exam: 3e. Right: Achilles (1 = Normal, 2 = Absent, 3 = Diminished, 4 = Increased, 5 = N/A)
114	ACHILLEL4	Num	8	NORMABX.	11.	Neuro Exam: 3e. Left: Achilles (1 = Normal, 2 = Absent, 3 = Diminished, 4 = Increased, 5 = N/A)
115	ARMSR4	Num	8	NORMAB.	11.	Neuro Exam: 2.1 Right: Arms ... (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
116	ARMSL4	Num	8	NORMAB.	11.	Neuro Exam: 2.1 Left: Arms ... (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
117	LEGSR4	Num	8	NORMAB.	11.	Neuro Exam: 2.2 Right: Legs ... (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
118	LEGSL4	Num	8	NORMAB.	11.	Neuro Exam: 2.2 Left: Legs ... (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
119	COGLEGR4	Num	8	PRESAB.	11.	Neuro Exam: 2a Right: Cogwheeling Leg ... (1 = Present, 2 = Absent, 99 = Unable to obtain)
120	COGLEGL4	Num	8	PRESAB.	11.	Neuro Exam: 2a Left: Cogwheeling Leg ... (1 = Present, 2 = Absent, 99 = Unable to obtain)
121	COGARMR4	Num	8	PRESAB.	11.	Neuro Exam: 2b Right: Cogwheeling Arm ... (1 = Present, 2 = Absent, 99 = Unable to obtain)
122	COGARML4	Num	8	PRESAB.	11.	Neuro Exam: 2b Left: Cogwheeling Arm ... (1 = Present, 2 = Absent, 99 = Unable to obtain)
123	SPASLEGR4	Num	8	PRESAB.	11.	Neuro Exam: 2c Right: Spasticity Leg ... (1 = Present, 2 = Absent, 99 = Unable to obtain)
124	SPASLEGL4	Num	8	PRESAB.	11.	Neuro Exam: 2c Left: Spasticity Leg ... (1 = Present, 2 = Absent, 99 = Unable to obtain)
125	SPASARMR4	Num	8	PRESAB.	11.	Neuro Exam: 2d Right: Spasticity Arm ... (1 = Present, 2 = Absent, 99 = Unable to obtain)
126	SPASARML4	Num	8	PRESAB.	11.	Neuro Exam: 2d Left: Spasticity Arm ... (1 = Present, 2 = Absent, 99 = Unable to obtain)
127	MYOCLEGR4	Num	8	PRESAB.	11.	Neuro Exam: 2g Right: Myoclonus Leg ... (1 = Present, 2 = Absent, 99 = Unable to obtain)
128	MYOCLEGL4	Num	8	PRESAB.	11.	Neuro Exam: 2g Left: Myoclonus Leg ... (1 = Present, 2 = Absent, 99 = Unable to obtain)

The CONTENTS Procedure

Variables in Creation Order						
#	Variable	Type	Len	Format	Informat	Label
129	MYOCARMR4	Num	8	PRESAB.	11.	Neuro Exam: 2h Right: Myoclonus Arm ... (1 = Present, 2 = Absent, 99 = Unable to obtain)
130	MYOCARML4	Num	8	PRESAB.	11.	Neuro Exam: 2h Left: Myoclonus Arm ... (1 = Present, 2 = Absent, 99 = Unable to obtain)
131	F431_T1R4	Num	8	11.	11.	Neuro Exam: 1a Right: Filament 4.31, Trial 1 (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
132	F431_T1L4	Num	8	11.	11.	Neuro Exam: 1a Left: Filament 4.31, Trial 1 (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
133	F431_T2R4	Num	8	11.	11.	Neuro Exam: 1b Right: Filament 4.31, Trial 2 (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
134	F431_T2L4	Num	8	11.	11.	Neuro Exam: 1b Left: Filament 4.31, Trial 2 (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
135	F432_T1R4	Num	8	NORMAB.	11.	Neuro Exam: 1c Right: Filament 4.32, Trial 1 (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
136	F432_T1L4	Num	8	NORMAB.	11.	Neuro Exam: 1c Left: Filament 4.32, Trial 1 (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
137	F432_T2R4	Num	8	NORMAB.	11.	Neuro Exam: 1d Right: Filament 4.32, Trial 2 (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
138	F432_T2L4	Num	8	NORMAB.	11.	Neuro Exam: 1d Left: Filament 4.32, Trial 2 (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
139	PIN_T1R4	Num	8	NORMAB.	11.	Neuro Exam: 2a Right: Pin/Prick Trial 1 (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
140	PIN_T1L4	Num	8	NORMAB.	11.	Neuro Exam: 2a Left: Pin/Prick Trial 1 (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
141	PIN_T2R4	Num	8	NORMAB.	11.	Neuro Exam: 2b Right: Pin/Prick Trial 2 (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
142	PIN_T2L4	Num	8	NORMAB.	11.	Neuro Exam: 2b Left: Pin/Prick Trial 2 (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
143	VIBFINR4	Num	8	NORMAB.	11.	Neuro Exam: 3a Right: Vibration Index Finger (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
144	VIBFINL4	Num	8	NORMAB.	11.	Neuro Exam: 3a Left: Vibration Index Finger (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
145	VIBTOER4	Num	8	NORMAB.	11.	Neuro Exam: 3b Right: Vibration Big Toe (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
146	VIBTOEL4	Num	8	NORMAB.	11.	Neuro Exam: 3b Left: Vibration Big Toe (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
147	POSIT10R4	Num	8	NORMAB.	11.	Neuro Exam: 4a Right: Position -10 (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
148	POSIT10L4	Num	8	NORMAB.	11.	Neuro Exam: 4a Left: Position -10 (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)

The CONTENTS Procedure

Variables in Creation Order						
#	Variable	Type	Len	Format	Informat	Label
149	POSIT20R4	Num	8	NORMAB.	11.	Neuro Exam: 4b Right: Position -20 (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
150	POSIT20L4	Num	8	NORMAB.	11.	Neuro Exam: 4b Left: Position -20 (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
151	POSIT30R4	Num	8	NORMAB.	11.	Neuro Exam: 4c Right: Position -30 (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
152	POSIT30L4	Num	8	NORMAB.	11.	Neuro Exam: 4c Left: Position -30 (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
153	STEREO4	Num	8	OBJECT.	11.	Neuro Exam: 5. Stereognosis (1 = 1 object, 2 = 2 objects, 3 = 3 objects, 4 = 4 objects, 99 = Unable to obtain)
154	GRAPHNOR4	Num	8	SYMBOL.	11.	Neuro Exam: 6a. Right: Number of symbols recognized (1 = 1 symbol, 2 = 2 symbols, 3 = 3 symbols, 97 = No symbols recognized, 99 = Unable to obtain)
155	GRAPHNOL4	Num	8	SYMBOL.	11.	Neuro Exam: 6b. Left: Number of symbols recognized (1 = 1 symbol, 2 = 2 symbols, 3 = 3 symbols, 97 = No symbols recognized, 99 = Unable to obtain)
156	HLKNEER4	Num	8	NORMAB.	11.	Neuro Exam: 1. Right: Heel to Knee (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
157	HLKNEEL4	Num	8	NORMAB.	11.	Neuro Exam: 1. Left: Heel to Knee (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
158	HLSHINR4	Num	8	NORMAB.	11.	Neuro Exam: 2. Right: Heel to Shin (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
159	HLSHINL4	Num	8	NORMAB.	11.	Neuro Exam: 2. Left: Heel to Shin (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
160	FINGNOR4	Num	8	NORMAB.	11.	Neuro Exam: 3. Right: Finger to Nose (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
161	FINGNOL4	Num	8	NORMAB.	11.	Neuro Exam: 3. Left: Finger to Nose (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
162	HANDMOVR4	Num	8	NORMAB.	11.	Neuro Exam: 4. Right: Hand Movements (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
163	HANDMOVL4	Num	8	NORMAB.	11.	Neuro Exam: 4. Left: Hand Movements (1 = Abnormal, 2 = Normal, 99 = Unable to obtain)
164	ROMBOPEN4	Num	8	YNDK.	11.	Neuro Exam: 5. Eyes Open: Hold balance (1 = Yes, 0 = No, 99 = Unable to obtain)
165	ROMBCLOS4	Num	8	YNDK.	11.	Neuro Exam: 5. Eyes Closed: Hold balance (1 = Yes, 0 = No, 99 = Unable to obtain)
166	ABMOVERL4	Num	8	YNDK.		Neuro Exam: Any Abnormal Eye Movements
167	CRANVRL4	Num	8	YNDK.		Neuro Exam: Paresis of Cranial Nerves VII, IX, or XII
168	ARMSPRL4	Num	8	YNDK.		Neuro Exam: Paresis of Upper Extremity
169	LEGGPRL4	Num	8	YNDK.		Neuro Exam: Paresis of Lower Extremity

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Variables in Creation Order						
#	Variable	Type	Len	Format	Informat	Label
170	ARMSARL4	Num	8	YNDK.		Neuro Exam: Asymmetry in Muscle Strength of Shoulder Abduction
171	LEGSARL4	Num	8	YNDK.		Neuro Exam: Asymmetry in Muscle Strength of Hip Flexion
172	FINGNORL4	Num	8	YNDK.		Neuro Exam: Dysmetria of Upper Extremity
173	HLSHINRL4	Num	8	YNDK.		Neuro Exam: Dysmetria of Lower Extremity
174	HLKNEERL4	Num	8	YNDK.		Neuro Exam: Impaired Motor Coordination - Heel / Knee
175	HANDMOVRL4	Num	8	YNDK.		Neuro Exam: Impaired Motor Coordination - Pronation / Supination
176	ABTOUCHR4	Num	8	NORMAB.		Neuro Exam: Abnormal Touch Sensitivity - Right
177	ABTOUHL4	Num	8	NORMAB.		Neuro Exam: Abnormal Touch Sensitivity - Left
178	ABTOUCHRL4	Num	8	YNDK.		Neuro Exam: Abnormal Touch Sensitivity - Both
179	ABVIBFINRL4	Num	8	YNDK.		Neuro Exam: Abnormal Vibration Sensitivity - Upper Extremity
180	ABVIBTOERL4	Num	8	YNDK.		Neuro Exam: Abnormal Vibration Sensitivity - Lower Extremity
181	ABPOSR4	Num	8	NORMAB.		Neuro Exam: Abnormal Sense of Position - Right Ankle
182	ABPOSL4	Num	8	NORMAB.		Neuro Exam: Abnormal Sense of Position - Left Ankle
183	ABPOSRL4	Num	8	YNDK.		Neuro Exam: Abnormal Sense of Position - Both Ankles
184	STEREO_HND4	Num	8	YNDK.		Neuro Exam: Stereognosis - Hands and Palms
185	STEREO_FT4	Num	8	YNDK.		Neuro Exam: Stereognosis - Feet
186	BICEPSARL4	Num	8	NORMABX.		Neuro Exam: Bicipital DTR [1=Normal,2=Absent,3=Diminished,4=Increased]
187	PATELDRL4	Num	8	NORMABX.		Neuro Exam: Patellar DTR [1=Normal,2=Absent,3=Diminished,4=Increased]
188	ACHILRL4	Num	8	NORMABX.		Neuro Exam: Achilles DTR [1=Normal,2=Absent,3=Diminished,4=Increased]
189	HOFFMNRL4	Num	8	YNDK.		Neuro Exam: Pathological Reflexes - Hoffman
190	PLNTRRL4	Num	8	YNDK.		Neuro Exam: Pathological Reflexes - Babinski
191	GRASPRL4	Num	8	YNDK.		Neuro Exam: Primitive Reflexes - Grasp
192	PALMRL4	Num	8	YNDK.		Neuro Exam: Primitive Reflexes - Palmmental
193	ANYPRIMREF4	Num	8	YNDK.		Neuro Exam: Primitive Reflexes - Any
194	ROMBOC4	Num	8	YNDK.		Neuro Exam: Romberg Test [Held Balance < 30 sec]
195	UPDSTATUS4	Char	255	\$255.	\$255.	UPDRS: Status of 4th Follow-Up UPDRS
196	UPDRSDT4	Num	8	DATETIME19.	DATETIME19.	Date UPDRS Form Completed
197	UPDRSTID4	Char	50	\$50.	\$50.	UPDRS Examiner Staff ID#
198	SPEECH4	Num	8	SPEECH.	11.	UPDRS. Speech: (0 = Normal, 1 = Slight loss, 2 = Monotone, 3 = Marked impairment, 4 = Unintelligible)

The CONTENTS Procedure

Variables in Creation Order						
#	Variable	Type	Len	Format	Informat	Label
199	FACIAL4	Num	8	FACE.	11.	UPDRS. Facial Expression: (0 = Normal, 1 = Minimal, 2 = Slight, 3 = Moderate, 4 = Masked or fixed)
200	FACETRM4	Num	8	ASMMM.	11.	UPDRS. Tremor at Rest: Face, Lips, and Chin (0 = Absent, 1 = Slight, 2 = Mild, 3 = Moderate, 4 = Marked)
201	HNDRTRMR4	Num	8	ASMMM.	11.	UPDRS. Tremor at Rest: Right Hand (0 = Absent, 1 = Slight, 2 = Mild, 3 = Moderate, 4 = Marked)
202	HNDRTRML4	Num	8	ASMMM.	11.	UPDRS. Tremor at Rest: Left Hand (0 = Absent, 1 = Slight, 2 = Mild, 3 = Moderate, 4 = Marked)
203	FTRTRMR4	Num	8	ASMMM.	11.	UPDRS. Tremor at Rest: Right Foot (0 = Absent, 1 = Slight, 2 = Mild, 3 = Moderate, 4 = Marked)
204	FTRTRML4	Num	8	ASMMM.	11.	UPDRS. Tremor at Rest: Left Foot (0 = Absent, 1 = Slight, 2 = Mild, 3 = Moderate, 4 = Marked)
205	HNDATRMR4	Num	8	ASMMM.X.	11.	UPDRS. Action or Postural Tremor of Hands: Right Hand (0 = Absent, 1 = Slight, 2 = Moderate w/action, 3 = Moderate w/holding, 4 = Marked)
206	HNDATRML4	Num	8	ASMMM.X.	11.	UPDRS. Action or Postural Tremor of Hands: Left Hand (0 = Absent, 1 = Slight, 2 = Moderate w/action, 3 = Moderate w/holding, 4 = Marked)
207	RIGNECK4	Num	8	ASMMS.	11.	UPDRS. Rigidity: Neck (0 = Absent, 1 = Slight, 2 = Mild, 3 = Marked, 4 = Severe)
208	RIGARMR4	Num	8	ASMMS.	11.	UPDRS. Rigidity: Right Arm (0 = Absent, 1 = Slight, 2 = Mild, 3 = Marked, 4 = Severe)
209	RIGARML4	Num	8	ASMMS.	11.	UPDRS. Rigidity: Left Arm (0 = Absent, 1 = Slight, 2 = Mild, 3 = Marked, 4 = Severe)
210	RIGLEGR4	Num	8	ASMMS.	11.	UPDRS. Rigidity: Right Leg (0 = Absent, 1 = Slight, 2 = Mild, 3 = Marked, 4 = Severe)
211	RIGLEGL4	Num	8	ASMMS.	11.	UPDRS. Rigidity: Left Leg (0 = Absent, 1 = Slight, 2 = Mild, 3 = Marked, 4 = Severe)
212	TAPSR4	Num	8	NMMSB.	11.	UPDRS. Finger Taps: Right Hand (0 = Normal, 1 = Mild, 2 = Moderate, 3 = Severe, 4 = Barely performed)
213	TAPSL4	Num	8	NMMSB.	11.	UPDRS. Finger Taps: Left Hand (0 = Normal, 1 = Mild, 2 = Moderate, 3 = Severe, 4 = Barely performed)
214	HNDOCR4	Num	8	NMMSB.	11.	UPDRS. Hand Movements: Right Hand (0 = Normal, 1 = Mild, 2 = Moderate, 3 = Severe, 4 = Barely performed)
215	HNDOCL4	Num	8	NMMSB.	11.	UPDRS. Hand Movements: Left Hand (0 = Normal, 1 = Mild, 2 = Moderate, 3 = Severe, 4 = Barely performed)
216	RAPHNDR4	Num	8	NMMSB.	11.	UPDRS. Rapid Alternating Movements of Hands: Right Hand (0 = Normal, 1 = Mild, 2 = Moderate, 3 = Severe, 4 = Barely performed)
217	RAPHNDL4	Num	8	NMMSB.	11.	UPDRS. Rapid Alternating Movements of Hands: Left Hand (0 = Normal, 1 = Mild, 2 = Moderate, 3 = Severe, 4 = Barely performed)

The CONTENTS Procedure

Variables in Creation Order						
#	Variable	Type	Len	Format	Informat	Label
218	LEGAGILR4	Num	8	NMMSB.	11.	UPDRS. Leg Agility: Right Leg (0 = Normal, 1 = Mild, 2 = Moderate, 3 = Severe, 4 = Barely performed)
219	LEGAGILL4	Num	8	NMMSB.	11.	UPDRS. Leg Agility: Left Leg (0 = Normal, 1 = Mild, 2 = Moderate, 3 = Severe, 4 = Barely performed)
220	CHAIR4	Num	8	11.	11.	UPDRS. Arising from Chair: (0 = Normal, 1 = Slow, 2 = Pushes self, 3 = Tends to fall back, 4 = Unable to rise without help)
221	POSTURE4	Num	8	11.	11.	UPDRS. Posture: (0 = Normal, 1 = Not quite, 2 = Moderately stopped, 3 = Severely stopped, 4 = Marked flexion)
222	GAIT4	Num	8	11.	11.	UPDRS. Gait: (0 = Normal, 1 = Walks slowly, 2 = Walks with difficulty, 3 = Severe gait disturbance, 4 = Cannot walk at all)
223	POSSTAB4	Num	8	11.	11.	UPDRS. Postural Stability: (0 = Normal, 1 = Retropulsion, 2 = Absence of postural response, 3 = Very unstable, 4 = Unable to stand without assistance)
224	BRDYKIN4	Num	8	11.	11.	UPDRS. Body bradykinesia and Hypokinesia; (0 = None, 1 = Minimal slowness, 2 = Mild degree, 3 = Moderate slowness, 4 = Marked slowness)
225	PDSTATE4	Num	8	11.	11.	UPDRS. Indicate the ppts PD state during exam: (0 = No PD, 1 = Fluctuator ON, 2 = Fluctuated during exam, 3 = Fluctuator OFF, 4 = Non-Fluctuator)
226	UPDRS_III4	Num	8			UPDRS III Score
227	HB4JPQDT	Num	8	DATETIME19.	DATETIME19.	Date of Joint Pain Ques. Visit
228	HB4JPQID	Char	255	\$255.	\$255.	Joint Pain Ques. Staff ID - the person completing the form
229	HB4QKP30D	Num	8	11.	11.	Q 1. Have you ever had pain lasting at least one month in or around either knee? (1=Yes, 2=No, 8=Don't know, 7=Refused)
230	HB4QKP12M	Num	8	11.	11.	Q 1a. In the past 12 months, have you had knee pain lasting at least one month? (1=Yes, 0=No)
231	HB4QKPBK	Num	8	11.	11.	Q 1b. In the past 12 months. have you had this pain in the left knee, right knee, or both knees? (1=Left knee only, 2=Right Knee only, 3= Both Left and right knee)
232	HB4QLK12M	Num	8	11.	11.	Q 2. In the past 12 months, how severe was the pain in your left knee usually? (1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't know)
233	HB4QLKFS	Num	8	11.	11.	Q 2a). Left Knee pain while walking on a flat surface (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
234	HB4QLKST	Num	8	11.	11.	Q 2b). Left Knee pain while going up or down stairs (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
235	HB4QLKBD	Num	8	11.	11.	Q 2c). Left Knee pain at night while in bed (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
236	HB4QLKUP	Num	8	11.	11.	Q 2d). Left Knee pain while standing up (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
237	HB4QLKCH	Num	8	11.	11.	Q 2e). Left Knee pain while getting in or out of a chair (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)

The CONTENTS Procedure

Variables in Creation Order						
#	Variable	Type	Len	Format	Informat	Label
238	HB4QLKIN	Num	8	11.	11.	Q 2f). Left Knee pain while getting in or out of a car (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
239	HB4QRK12M	Num	8	11.	11.	Q 3. In the past 12 months, how severe was the pain in your left knee usually? (1=Mild, 2=Moderat
240	HB4QRKFS	Num	8	11.	11.	Q 3a). Right Knee pain while walking on a flat surface (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
241	HB4QRKST	Num	8	11.	11.	Q 3b). Right Knee pain while going up or down staris (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
242	HB4QRKBD	Num	8	11.	11.	Q 3c). Right Knee pain at night while in bed (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
243	HB4QRKUP	Num	8	11.	11.	Q 3d). Right Knee pain while standing upright (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
244	HB4QRKCH	Num	8	11.	11.	Q 3e). Right Knee pain while getting in or out of a chair (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
245	HB4QRKIN	Num	8	11.	11.	Q 3f). Right Knee pain while getting in or out of a car (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
246	HB4QHP30D	Num	8	11.	11.	Q 4. Have you ever had pain lasting at least one month in or around either side of your hip? (1=Yes, 0=No, 8=Don't know, 7=Refused)
247	HB4QHP12M	Num	8	11.	11.	Q 4a. In the past 12 months, have you had hip pain asting at least one months? (1=Yes, 2=No)
248	HB4QHPBH	Num	8	11.	11.	Q 4b. In the past 12 months, have you had this pain in the left hip, right hip, or both hips? (1=Left hip only, 2=Right hip only, 3=Both left and right hip)
249	HB4QLH12M	Num	8	11.	11.	Q 5. In the past 12 months, how severe was the pain in your left hip usually? (1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't know)
250	HB4QLHFS	Num	8	11.	11.	Q 5a). Left Hip pain while walking on a flat surface (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
251	HB4QLHST	Num	8	11.	11.	Q 5b). Left Hip pain while going up or down stairs (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
252	HB4QLHBD	Num	8	11.	11.	Q 5c). Left Hip pain at night while in bed (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
253	HB4QLHUP	Num	8	11.	11.	Q 5d). Left Hip pain while staning upright (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
254	HB4QLHCH	Num	8	11.	11.	Q 5e). Left Hip pain while getting in or out of a chair (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
255	HB4QLHIN	Num	8	11.	11.	Q 5f). Left Hip pain while getting in orout of a car (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
256	HB4QRH12M	Num	8	11.	11.	Q 6. In the past 12 months, how severe was the pain in your right hip usually? (1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't know)

The CONTENTS Procedure

Variables in Creation Order						
#	Variable	Type	Len	Format	Informat	Label
257	HB4QRHFS	Num	8	11.	11.	Q 6a). Right Hip pain while walking on a flat surface (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
258	HB4QRHST	Num	8	11.	11.	Q 6b). Right Hip pain while going up or down stairs (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
259	HB4QRHBD	Num	8	11.	11.	Q 6c). Right Hip pain at night while in bed (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
260	HB4QRHUP	Num	8	11.	11.	Q 6d). Right Hip pain while standing upright (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
261	HB4QRHCH	Num	8	11.	11.	Q 6e). Right Hip pain while getting in or out of a chair (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
262	HB4QRHIN	Num	8	11.	11.	Q 6f). Right Hip pain while getting in or out of a car (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
263	HB4QAP30D	Num	8	11.	11.	Q 7. Have you ever had pain lasting at least one month in or around either ankle? (1=Yes, 2=No, 8=Don't know, 7=Refused)
264	HB4QAP12M	Num	8	11.	11.	Q 7a. In the past 12 months, have you had ankle pain lasting at least one month? (1=Yes, 2=No)
265	HB4QAPBA	Num	8	11.	11.	Q 7b. In the past 12 months, have you had this pain in the left ankle, right ankle, or both ankles? (1=Left ankle only, 2=Right ankle only, 3=Both left and right ankle)
266	HB4QLA12M	Num	8	11.	11.	Q 8. In the past 12 months, how severe was the pain in your left ankle usually? (1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't know)
267	HB4QLAFS	Num	8	11.	11.	Q 8a). Left ankle pain while walking on a flat surface (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
268	HB4QLAST	Num	8	11.	11.	Q 8b). Left ankle pain while going up or down stairs (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
269	HB4QLABD	Num	8	11.	11.	Q 8c). Left ankle pain at night while in bed (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
270	HB4QLAUP	Num	8	11.	11.	Q 8d). Left ankle pain while standing upright (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
271	HB4QLACH	Num	8	11.	11.	Q 8e). Left ankle pain while getting in or out of a chair (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
272	HB4QLAIN	Num	8	11.	11.	Q 8f). Left ankle pain while getting in or out of a car (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
273	HB4QRA12M	Num	8	11.	11.	Q 9. In the past 12 months, how severe was the pain in your right ankle usually? (1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't know)
274	HB4QRAFS	Num	8	11.	11.	Q 9a). Right ankle pain while walking on a flat surface (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
275	HB4QRAST	Num	8	11.	11.	Q 9b). Right ankle pain while going up or down stairs (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)

The CONTENTS Procedure

Variables in Creation Order						
#	Variable	Type	Len	Format	Informat	Label
276	HB4QRABD	Num	8	11.	11.	Q 9c). Right ankle pain at night while in bed (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
277	HB4QRAUP	Num	8	11.	11.	Q 9d). Right ankle pain while standing upright (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
278	HB4QRACH	Num	8	11.	11.	Q 9e). Right ankle pain while getting in or out of a chair (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
279	HB4QRAIN	Num	8	11.	11.	Q 9f). Right ankle pain while getting in or out of car (0=None, 1=Mild, 2=Moderate, 3=Severe, 4=Extreme, 8=Don't Know)
280	VERSION	Num	8	YYMMDD10.		Release Date for this Version of HBRAIN_FU4
281	STAFFID	Char	50	\$50.	\$50.	STAFFID
282	HB4WWK	Num	8	HBMETER.	11.	4mWalk:Q1. Which walk was set up? (1=4-meter; 2=3-meter; 0=None: 3 meter space not available)
283	HB4UTM1	Num	8			4mWalk:Q4. Usual-pace Walk Time 1 (seconds)
284	HB4RF	Num	8	YN_LEP.	11.	4mWalk:Q4. Participant refused (1=Yes, 0=No)
285	HB4NAT	Num	8	YN_LEP.	11.	4mWalk:Q4. Not attempted, unable (1=Yes, 0=No)
286	HB4ATUN	Num	8	YN_LEP.	11.	4mWalk:Q4. Attempted, but unable to complete (1=Yes, 0=No)
287	HB4UTM2	Num	8			4mWalk:Q5. Usual-pace Walk Time 2 (seconds)
288	HB4RTM	Num	8			4mWalk:Q6. Rapid Time (seconds)
289	HB4RWRF	Num	8	YN_LEP.	11.	4mWalk:Q6. Participant refused (1=Yes, 0=No)
290	HB4RWNAT	Num	8	YN_LEP.	11.	4mWalk:Q6. Attempted, but unable to complete (1=Yes, 0=No)
291	HB4RWATUN	Num	8	YN_LEP.	11.	4mWalk:Q6. Participant refused (1=Yes, 0=No)
292	HB4AID	Num	8	YN_LEP.	11.	4mWalk:Q7. Was the participant using a walking aid, such as a cane or walker? (1=Yes, 0=No)
293	HB4UTM	Num	8			4mWalk:Fastest of the two trials for the usual walk

Health ABC Healthy Brain Study - Medication Dataset for 4th Follow-Up Visit from Baseline

The CONTENTS Procedure

Data Set Name	DFU4.HBMIFCOD_FU4	Observations	954
Member Type	DATA	Variables	12
Engine	V9	Indexes	0
Created	Tuesday, April 16, 2013 05:15:56 PM	Observation Length	256
Last Modified	Tuesday, April 16, 2013 05:15:56 PM	Deleted Observations	0
Protection		Compressed	NO
Data Set Type		Sorted	NO
Label			
Data Representation	WINDOWS_32		
Encoding	wlatin1 Western (Windows)		

Engine/Host Dependent Information	
Data Set Page Size	16384
Number of Data Set Pages	16
First Data Page	1
Max Obs per Page	63
Obs in First Data Page	53
Number of Data Set Repairs	0
Filename	V:\Data Analysis File\Programs\Substudy Programs\HealthyBrain\HB201304Final\hbmifcod_fu4.sas7bdat
Release Created	9.0202M0
Host Created	XP_PRO

Health ABC Healthy Brain Study - Medication Dataset for 4th Follow-Up Visit from Baseline

The CONTENTS Procedure

Variables in Creation Order						
#	Variable	Type	Len	Format	Informat	Label
1	HABCID	Num	4	11.	11.	HABC ENROLLMENT ID
2	MIFNAME	Char	35	\$35.	\$35.	MIF: Name of Prescription Medication
3	MIFFRMCODE	Num	8	3.	3.	MIF: Formulation Code
4	MIFFREQ	Num	8	2.	2.	MIF: Frequency of Use
5	MIFDUR	Num	8	3.	3.	MIF: Duration of Use - NOT Collected
6	MIFUSE	Num	8	2.	2.	MIF: Is Participant Still Using Med?
7	DRUGCODE	Num	8	11.	11.	MIF: Drug Code
8	INGCODE	Num	8	11.	11.	MIF: Ingredient Code (IDIS)
9	INGNAME	Char	100	\$100.	\$100.	MIF: Ingredient Name
10	Cohort	Char	50	\$50.	\$50.	Cohort A = Year 10 Baseline; Cohort B = Year 11 Baseline; Cohort C = Year 12 Baseline
11	MIFDATE	Num	8	DATETIME19.	DATETIME19.	MIF: Date Form Completed
12	VERSION	Num	8	YYMMDD10.		Release Date for this Version of hbmifcod_fu4