Coding Manual of Curated Gen 3/NOS/Omni 2 dataset

Note:		
1.	This curated dataset contains information of Gen III, NOS, and Omni 2 participants.	
2.	There are 4608 unique FHS participants within this dataset [*] , with a total of 624 variables.	
3.	Variables are generally grouped based on their origins (i.e., primary FHS dataset)	
4.	. The format of the curated dataset is of wide format, with distinct variable names that allow users to tell the difference for repeated measurements of data of similar nature.	
5.	. For protocol descriptions and annotated forms of the primary datasets, refer to the respective documents of the individual source datasets.	
6.	 Take note of the last verified date for outcome and mortality data: a. Dementia – 12/31/2024 b. CVD/Stroke/AF – 12/31/2022 c. Cancer – 12/31/2019 d. Mortality/Last contact – 12/31/2021 	
7.	Refer to Appendix for FHS core exam timeline (all cohorts)	

Depending on the source of the datasets, consent restrictions may affect the overall N.

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IDTYPE

Variable name: idtype

Description: Framingham Heart Study cohort identifier

IDTYPE and ID must be used together to form a unique study participant identification number or use variable "framid" instead

Code or Value	Description	Count
2	NOS	103
3	Gen III	4095
72	Omni 2	410

ID

Variable name: id

Description: Framingham Heart Study participant identifier within cohort

IDTYPE and ID must be used together to form a unique study participant identification number or use variable "framid" instead

Code or Value	Description
0 – 9999	Range of values

Note: To preserve confidentiality, the exact range for the ID is not reflected in the coding manual.

FRAMID

Variable name: Framid

Description: Framingham ID assigned to each participant

Code or Value

Description

20000 – 29999	NOS
30000 – 39999	Gen III
720000 – 729999	Omni 2

Note: To preserve confidentiality, the exact range for the ID is not reflected in the coding manual.

SEX

Variable name: sex Description: Gender

Code or Value	Description
1	Male
2	Female

RACE_CODE

Variable name: RACE_CODE

Description: RACE and ETHNICITY - Summary code string from combining primary codes given at different exams

Information extracted from "vi	^r raceall	2008 a	0712"
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Code or Value

Description

W	White
В	Black
Н	Hispanic or Latino
E	Not Hispanic or Latino
А	Asian
Р	Native Hawaiian or Pacific Islander
Ν	American Indian or Alaskan Native
Х	Asian Indian or Pacific Islander
R	Prefer not to answer
0	Other
	Unknown

Note: RACE_CODE is constructed using primary codes W, B, H etc.

Race at different time points (exams) were combined to form RACE_CODE to indicate all races reported by participant over time.

Example1: RACE_CODE = 'EW' participant reported 'Not Hispanic or Latino' (H701) and 'White' (H702).

Example2: RACE_CODE = 'HH' participant reported 'Hispanic or Latino' (RACEATOMNI1) and 'Hispanic or Latino' (H700).

Example3: RACE_CODE = 'BEB' participant reported 'Black' (RACEATOMNI1), 'Not Hispanic or Latino' (H701) and 'Black' (H703).

Example4: RACE_CODE = 'ER' participant reported 'Not Hispanic or Latino' (H701) and 'Prefer not to answer' (H707).

All Gen 1, 2 and 3 participants with missing race_code information are assumed as Non-Hispanic White

<u>Character variable</u>

RACE

Variable name: Race Description: Race

Code or Value

Description

1	White
2	Black
3	Asian
4	Asian Indian/ Native Hawaiian/Pacific Islander
5	American Indian/Alaskan Native
6	Prefer not to answer/Others

ETHNICITY

Variable name: Ethnicity **Description:** Ethnicity

Code or Value	Description
1	Not Hispanic or Latino
2	Hispanic or Latino
	Unknown

DATE_CORE1 — DATE_CORE3

Variable name:date_core1 — date_core3Description:Exam date of core exam 1 — 3 (MMDDYYYY)

Note: Date includes month, day and year

AGE_CORE1 — AGE_CORE3

Variable name: $Age_core1 - Age_core3$ Description: Age at core exam 1 - 3

EDU_CORE1 — EDU_CORE3

Variable name: Edu_core1 — Edu_core3

Description: Education at core exam 1 - 3 (If currently enrolled, the highest grade completed or degree received.)

Code or Value	Description
0	No schooling
1	Grades 1 – 8
2	Grades 9 – 11
3	Completed high school (12 th grade) or GED
4	Some college, but no degree
5	Technical school certificate
6	Associate degree (Junior college AA, AS)
7	Bachelor's degree (BA, AB, BS)
8	Graduate or professional degree (Master's,
	Doctorate, MD, etc.)
	Prefer not to answer/Unknown

Note:

- For edu_core2 only, "Prefer not to answer" was coded as "9" and Unknown was coded as ".".
- Education information is also collected during NP testing. Refer to variable "education_B1", "education_B2" and "educg"

EDU_ALL

Variable name: edu_all Description: Highest education level attained

Code or Value

Description

0	High school did not graduate
1	High school graduate
2	Some college
3	College graduate
	Unknown

Note:

This variable is derived from core exams, neuropsychological exams, and psychosocial questionnaires. Education level was determined by cohort based on available data, with the following priority order.

• Original cohort:

Demographics

- 1. Exam 1
- 2. Psychosocial
- 3. NP wave 2
- 4. NP wave 1
- Offspring cohort
 - 1. NP wave 2
 - 2. NP wave 1
 - 3. Exam 2
 - 4. Psychosocial
- Omni 1 cohort
 - 1. NP wave 2
 - 2. NP wave 1
 - 3. Exam 3
- Generation 3, NOS, and Omni 2 cohorts
 - 1. Exam 2
 - 2. Exam 1
 - 3. NP wave 1
 - 4. Exam 3 (additional check on top the harmonized education protocol)

HEIGHT_CORE1 — HEIGHT_CORE3

Variable name: Height_core1 — Height_core3 **Description:** Height at Core Exam 1 — 3 (inches, to next lower 1/4 inch)

WEIGHT_CORE1 — WEIGHT_CORE3

Variable name: Weight_core1 — Weight_core3 Description: Weight at Core Exam 1 — 3 (pounds)

BMI_CORE1 — BMI_CORE3

Variable name: $BMI_core1 - BMI_core3$ Description: Body mass index at Core Exam 1 - 3 (kg/m²)

HIP_CORE2 — HIP_CORE3

Variable name: Hip_core2 — Hip_core3 Description: Hip girth at Exam 2 — 3 (inches, to next lower 1/4 inch)

Note: Hip girth was not measured for Core Exam 1.

WAIST_CORE1 — WAIST_CORE3

Variable name: Waist_core1 — Waist_core3 Description: Waist girth at Core Exam 1 - 3 (inches, to next lower 1/4 inch)

SMOKING_CORE1 — SMOKING_CORE3

Variable name: Smoking_core1 — Smoking_core3 Description: Current smoking status, Exam 1 — 3

Code or Value	Description
0	Not a current smoker
1	Current Smoker
	Unknown

SMOKING_EVER_CORE2 — SMOKING_EVER_CORE3

Variable name: Smoking_ever_core2 — Smoking_ever_core3 Description: History of smoking status at exam 2 - 3

Code or Value	Description
0	Non-smoker
1	Current Smoker
2	Ex-smoker
	Unknown

CPD_CORE1 — CPD_CORE3

Variable name: CPD_core1 — CPD_core3 Description: Number of cigarettes smoked per day, Exam 1 - 3 Blood Pressures, Heart Rate, Ventricular Hypertrophy and Antihypertensives

SBP_CORE1 — SBP_CORE3

Variable name: SBP_core1 — SBP_core3 Description: Average systolic blood pressure, Exam 1 — 3 (mmHg)

DBP_CORE1 — DBP_CORE3

Variable name: DBP_core1 — DBP_core3 Description: Average diastolic blood pressure, Exam 1 - 3 (mmHg)

VENT_RT_CORE1 — VENT_RT_CORE3

Variable name: Vent_rt_core1 — Vent_rt_core3 Description: Ventricular rate per minute by ECG, Exam 1 — 3

DLVH_CORE1 — DLVH_CORE3

Variable name: DLVH_core1 — DLVH_core3 Description: Definite left ventricular hypertrophy, Exam 1 — 3

Description

0	No
1	Yes
	Unknown

HRX_CORE1 — HRX_CORE3

Variable name: HRX_core1 — HRX_core3 Description: Treated for hypertension, Exam 1 — 3

Code or Value

0	No
1	Yes
	Unknown

BG_CORE1 — BG_CORE3

Variable name: BG_core1 — BG_core3 Description: Blood glucose (includes fasting and non-fasting), Exam 1 — 3 (mg/dL)

FASTING_BG_CORE3 — FASTING_BG_CORE3

Variable name: Fasting_BG_core1 — Fasting_BG_core3 **Description:** Fasting (\geq 8 hours) blood glucose, Exam 1 — 3 (mg/dL)

DMRX_CORE1 — DMRX_CORE3

Variable name: DMRX_core1 — DMRX_core3 Description: Treated for diabetes, Exam 1 — 3

Code or Value

Description

0	No
1	Yes
	Unknown

CURR_DM_CORE1 - CURR_DM_CORE3

Variable name: Curr_dm_core1 — Curr_dm_core3 Description: Current Diabetes status, Exam 1 — 3

Code or Value

0	No
1	Yes
	Unknown or did not attend Exam 1 $-$ 3

HX_DM_CORE1 — HX_DM_CORE3

Variable name: Hx_dm_core1 — Hx_dm_core3 Description: History of diabetes, Exam 1 — 3

Code or Value

0	No
1	Yes
	Unknown or did not attend Exam $1-3$

TC_CORE1 — TC_CORE3

Variable name: TC_core1 — TC_core3 Description: Total cholesterol, Exam 1 — 3 (mg/dL)

TRIGLYCERIDES_CORE1 — TRIGLYCERIDES_CORE3

Variable name: Triglycerides_core1 — Triglycerides_core3 Description: Triglycerides, Exam 1 — 3 (mg/dL)

CALC_LDL_CORE1 — CALC_LDL_CORE3

Variable name: Calc_LDL_core1 — Calc_LDL_core3 Description: Calculated LDL cholesterol, Exam 1 — 3 (mg/dL)

HDL_CORE1 — HDL_CORE3

Variable name: HDL_core1 — HDL_core3 Description: HDL-Cholesterol, Exam 1 — 3 (mg/dL)

LIPRX_CORE1 — LIPRX_CORE9

Variable name: LIPRX_core1 — LIPRX_core9 Description: Treated for lipids, Exam 1 — 3

Code or Value

0	No
1	Yes
	Unknown

$\label{eq:creatinine_core1} \textbf{CREATININE_CORE1} - \textbf{CREATININE_CORE3}$

Variable name: Creatinine_core1 — Creatinine_core3 Description: Creatinine, Exam 1 — 3 (mg/dL) **Refer to publication:** Sun X, Ho JE, Gao H, Evangelou E, Yao C, Huan T, Hwang SJ, Courchesne P, Larson MG, Levy D, Ma J, Liu C. Associations of Alcohol Consumption with Cardiovascular Disease-Related Proteomic Biomarkers: The Framingham Heart Study. J Nutr. 2021 Sep 4;151(9):2574-2582. doi: 10.1093/jn/nxab186. PMID: 34159370; PMCID: PMC8417922.

BEERPERWEEK_CORE1 - BEERPERWEEK_CORE3

Variable name: beerperweek_core1 - beerperweek_core3 **Description:** Number of beers per week at exam 1 - 3

Code or Value	Description
0 – 9999	Range of values

WHITEPERWEEK_CORE1

Variable name: whiteperweek_core1 Description: Number of white wines per week at exam 1

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Description

0 – 9999	Range of values
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Note: This variable is only available for exams 6 and 7.

REDPERWEEK_CORE1

Variable name: redperweek_core1 Description: Number of red wines per week at exam 1

Code or Value	Description
0 – 9999	Range of values

Note: This variable is only available for exam 1

WINEPERWEEK_CORE2 - WINEPERWEEK_CORE3

Variable name: wineperweek_core2 - wineperweek_core3 Description: Number of wines per week at exam 2 – 3

Code or Value	Description
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0 – 9999	Range of values	
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Note: For exam 1, this variable is split into white and red wine.

LIQUORPERWEEK_CORE1 - LIQUORPERWEEK_CORE3

Variable name: liquorperweek_core1 - liquorperweek_core3 **Description:** Number of liquor drinks per week at exam 1 - 3

Code or Value	Description
0 – 9999	Range of values

DRINKSPERWEEK_CORE1 - DRINKSPERWEEK_CORE3

Variable name: drinksperweek_core1 - drinksperweek_core3 Description: Number of alcoholic drinks per week at exam 1 - 3

Code or Value	Description	
0 – 9999	Range of values	

GRAMSPERDAY CORE1 - GRAMSPERDAY CORE3

Variable name: gramsperday_core1 - gramsperday_core3 Description: Daily alcohol consumption, g/d at exam 1 – 3

Code or Value	Description
0 – 9999	Range of values

CURRDRINK_CORE1 - CURRDRINK_CORE3

Variable name: currdrink_core1 - currdrink_core3 Description: Current drinking status at exam 1 – 3

Code or Value	Description
0	Non-drinker currently
1	Drinker currently

. Unknown/Did not attend exam	
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DRINKING_EVER_CORE2 - DRINKING_EVER_CORE3

Variable name: drinking_ever_core2 - drinking_ever_core3 **Description:** History of drinking at exam 2 – 3

Code or Value

Description

0	Never drinker
1	Current drinker
2	Previous drinker
	Unknown/Did not attend exam

ALCCAT_CORE1 - ALCCAT_CORE3

Variable name: alccat_core1 - alccat_core3 Description: Alcohol consumption categories at exam 1 – 3

Code or Value

0	Non-drinker
1	Moderate drinkers
	• 0.1–28 g/d in men
	• 0.1–14 g/d in women
2	At-risk drinkers
	• 28.1–42 g/d in men
	 14.1–28 g/d in women
3	Heavy drinkers
	 >42 g/d in men
	 >28 g/d in women
	Unknown/Did not attend exam

EXAMDATE_NP1 — EXAMDATE_NP4

Variable name:	examdate_NP1 — exam_NP4
Description:	Date of the first — fourth NP exam (MMDDYYYY)

AGE_NP1 — AGE_NP4

Variable name:	age_NP1 — age_NP4
Description:	Age of participant at first — fourth NP exam

BATTERY_NP1 — BATTERY_NP4

Variable name:	battery_NP1 — battery_NP4
Description:	Form of the battery used for first — fourth NP exam

Code or Value

Description

1	Short form
2	Long form
	Unknown

MARITAL_NP1 — MARITAL_NP4

Variable name:	marital_NP1 — marital_NP4
Description:	Current marital status for first — fourth NP exam

Code or Value

Description

1	Single
2	Married
3	Widowed
4	Divorced
5	Separated
6	Other
	Unknown/Missing

HANDEDNESS_NP1 — HANDEDNESS_NP4

Variable name:	handedness_NP1 — handedness_NP4
Description:	Subject's handedness, NP Exam $1 - 4$ (self-reporting)

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Code or Value
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1	Right
2	Left
3	Ambidextrous
	Unknown/Missing

EMPLOYMENT_NP1 — EMPLOYMENT_NP4

Variable name:	employment_NP1 — employment_NP4
Description:	Employment status, NP exam 1 — 4

Code or Value	Description
0	Works full time

Works full time
Works part-time
Not working due to disability
Retired, no longer works
Unemployed (expects to return to work)
Never worked for pay outside home
Volunteer
Other
Full-time student
Homemaker, expects to return to work
Unknown/Missing

EDUCATION_B1_NP1 — EDUCATION_B1_NP4

Variable name:education_b1_NP1 — education_b1_NP4Description:Highest Education Level Completed (Collected from NP battery1), NP
Exam 1 — 4

Code or Value	Description
0	None
1	4th grade or less
2	5th, 6th, or 7th grades
3	Grade school graduate; no high school
4	High school, did not graduate
5	High school diploma
6	College, did not graduate
7	College graduate
8	Postgraduate school
10	High school and business college, nursing
	school, music school, or art school only

	Unknown
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EDUCATION_B2_NP1 — EDUCATION_B2_NP4

Variable name:	education_b2_NP1 — education_b2_NP4
Description:	Highest Education Level Completed (Collected from NP battery2), NP
	Exam 1 — 4

Code or Value	Description
0	None
1	4th grade or less
2	5th, 6th, or 7th grades
3	Grade school graduate; no high school
4	High school, did not graduate
5	High school diploma
6	GED
7	Some college course-work for credit (no
	certificate or degree)
8	Junior college – earned certificate or degree
	(e.g., AD)
9	Business college, nursing school, music
	school, art school
10	Technical School (post-HS) – earned
	certificate
11	Four Year College, partial
12	Four Year College, graduate
13	Graduate School, partial (no Masters
	degree)
14	Graduate School (Masters)
15	Graduate School (Doctorate)
	Unknown

EDUCG_NP1 — EDUCG_NP4

Variable name:	educg_NP1 — educg_NP4
Description:	Education group (derived variable), NP Exam 1 $-$ 4

Code or Value

0	High school did not graduate
1	High school graduate
2	Some college

3	College graduate
	Unknown/Missing

OCCUP_B1_NP1 — OCCUP_B1_NP4

Variable name:	occup_b1_NP1 — occup_b1_NP4
Description:	Occupation from NP battery1, NP Exam 1 $-$ 4

Code or Value

Description

1	Major professionals
2	Business managers
3	Administrative personnel
4	Clerical and sales workers
5	Skilled manual employees
6	Semi-skilled employees
7	Unskilled employed
8	Never employed

OCCUP_B2_NP1 — OCCUP_B2_NP4

Variable name:	occup_b2_NP1 — occup_b2_NP4
Description:	Occupation from NP battery2, NP Exam 1 $-$ 4

Code or Value

	
1	Professional, Technical and Related
	Occupations
2	Executive, Administrative, and Managerial
	Occupations
3	Sales Occupations
4	Administrative Support Occupations,
	Including Clerical
5	Precision Production, Craft, and Repair
	Occupations
6	Machine Operators, Assemblers, and
	Inspectors
7	Transportation and Material Moving
	Occupations
8	Handlers, Equipment Cleaners, Helpers, and
	Laborers
9	Service Occupations, Except Private
	Household

10	Never employed for pay (e.g., homemaker)
	Unknown

LMI_NP1 — LMI_NP4

Variable name: Description:	lmi_NP1 — lmi_NP4 Total number correct verbatim and paraphrases from "Logical Memories – Immediate Recall", NP Exam 1 — 4 (Range: 0 – 23)
LMD_NP1 - LMD_	_NP4
Variable name: Description:	<pre>Imd_NP1 — Imd_NP4 Total number correct verbatim and paraphrases from "Logical Memories</pre>
LMR_NP1 — LMR_	NP4
Variable name: Description:	lmr_NP1 — lmr_NP4 Logical Memories – Recognition, NP Exam 1 — 4 (Range: 0 – 11)
LMI_JOE_NP1 — LI	MI_JOE_NP4
Variable name: Description:	<pre>Imi_joe_NP1 — Imi_joe_NP4 Total number of correct verbatim and paraphrases from WMS-III "Logical Memory – Immediate Recall" (only for Joe Garcia), NP Exam 1 — 4 (Range: 0 – 23)</pre>
LMD_JOE_NP1 — I	.MD_JOE_NP4
Variable name: Description:	<pre>Imd_joe_NP1 — Imd_joe_NP4 Total number of correct verbatim and paraphrases from WMS -III "Logical Memory – Delayed Recall" (only for Joe Garcia), NP Exam 1 — 4 (Range: 0 – 23)</pre>
LMR_JOE_NP1 — L	.MR_JOE_NP4
Variable name: Description:	<pre>Imr_joe_NP1 — Imr_joe_NP4 Total number of correct verbatim and paraphrases from WMS-III "Logical Memory – Recognition" (only for Joe Garcia), NP Exam 1 — 4 (Range: 0 – 11)</pre>
LM_STORY_NP1 —	LM_STORY_NP4

Variable name: LM_story_NP1 — LM_story_NP4

Description: Which logical memory story was administered? (NP Exam 1-4)

Code or Value	Description
1	Anna Thompson ONLY
2	Joe Garcia ONLY
3	Anna Thompson AND Joe Garcia
	Neither story

VRI_NP1 — VRI_NP4

Variable name:	vri_NP1 — vri_NP4
Description:	Total points scored from "Visual Reproductions – Immediate Recall", NP
	Exam 1 — 4 (Range: 0 – 14)

VRD_NP1 — VRD_NP4

Variable name:	vrd_NP1 — vrd_NP4
Description:	Total points scored from "Visual Reproductions – Delayed Recall", NP
	Exam 1 — 4 (Range: 0 – 14)

VRR_NP1 — VRR_NP4

Variable name:	vrr_NP1 — vrr_NP4
Description:	Total points scored from "Visual Reproductions – Recognition", NP Exam
	1 — 4 (Range: 0 – 4)

PASI_NP1 — PASI_NP4

Variable name:	pasi_NP1 — pasi_NP4
Description:	Total Score from "Paired Associate Learning – Immediate Recall", NP
	Exam 1 — 4 (Range 0 – 21)

PASI_E_NP1 — PASI_E1_NP4

Variable name:	pasi_e_NP1 — pasi_e_NP4
Description:	Easy Score from "Paired Associate Learning – Immediate Recall", NP
	Exam 1 — 4 (Range: 0 – 18)

PASI_H_NP1 — PASI_H_NP4

Variable name: pasi_h_NP1 — pasi_h_NP4

Description: Hard Score from "Paired Associate Learning – Immediate Recall", NP Exam 1 - 4 (Range: 0 - 12)

PASD_NP1 — PASD_NP4

Variable name:	pasd_NP1 — pasd_NP4
Description:	Total Score from "Paired Associate Learning – Delayed Recall", NP Exam 1
	— 4 (Range: 0 – 10)

PASD_E_NP1 — PASD_E_NP4

Variable name:	pasd_e_NP1 — pasd_e_NP4
Description:	Easy Score from "Paired Associate Learning – Delayed Recall", NP Exam 1
	— 4 (Range: 0 – 6)

PASD_H_NP1 — PASD_H_NP4

Variable name:	pasd_h_NP1 — pasd_h_NP4
Description:	Hard Score from "Paired Associate Learning – Delayed Recall", NP Exam 1
	— 4 (Range: 0 – 4)

PASR NP1 – PASR NP4

Variable name:	pasr_NP1 — pasr_NP4
Description:	Total Score from "Paired Associate Learning - Recognition", NP Exam 1 $-$
	4 (Range: 0 – 10)

DSF_NP1 — DSF_NP4

Variable name:	dsf_NP1 — dsf_NP4
Description:	Highest string from "Digits Forward Span", NP Exam $1 - 4$ (Range: $0 - 9$)

DSB_NP1 — DSB_NP4

Variable name:	dsb_NP1 — dsb_NP4
Description:	Highest string from "Digits Backward Span", NP Exam 1 $-$ 4 (Range: 0 $-$
8)	

TRAILSA_NP1 — TRAILSA_NP4

Variable name:	trailsA_NP1 — trailsA_NP4
Description:	Time in minutes to finish "Trail A", NP Exam $1 - 4 -$ capped at 7 minutes
	(Range: 0.10 –7.0)

TRAILSB_NP1 — TRAILSB_NP4

Variable name:	trailsB_NP1 — trailsB_NP4
Description:	Time in minutes to finish "Trail B", NP Exam 1 — 4 – capped at 10
	minutes (Range: 0.32 – 10.0)

SIM_NP1 — SIM_NP4

Variable name:	sim_NP1 — sim_NP4
Description:	Total raw score from "Similarities Test", NP Exam $1 - 4$ (Range: $0 - 26$)

HVOT_NP1 — HVOT_NP4

Variable name:	hvot_NP1 — hvot_NP4
Description:	Total score from "Hooper Visual Organization Test", NP Exam $1-4$
	(Range: 0 – 30)

BNT10_NP1 — BNT10_NP4

Variable name:	bnt10_NP1 — bnt10_NP4
Description:	Correct score without cue from 10 items of "Boston Naming Test", NP
	Exam 1 — 4 (Range: 0 – 10)

BNT10_SEMANTIC_NP1 — BNT10_SEMANTIC_NP4

Variable name:	bnt10_semantic_NP1 — bnt10_semantic_NP4
Description:	Correct score with semantic cue from 10 items of "Boston Naming Test",
	NP Exam 1 — 4 (Range: 0 – 10)

BNT10_PHONEMIC_NP1 — BNT10_PHONEMIC_NP4

Variable name:	bnt10_phonemic_NP1 — bnt10_phonemic_NP4
Description:	Correct score with phonemic cue from 10 items of "Boston Naming Test",
	NP Exam 1 — 4 (Range: 0 – 10)

BNT30_NP1 — BNT30_NP4

Variable name:	bnt30_NP1 — bnt30_NP4
Description:	Correct score without cue from 30 items of "Boston Naming Test", NP
	Exam 1 — 4 (Range: 0 – 30)

BNT30_SEMANTIC_NP1 — BNT30_SEMANTIC_NP4

Variable name: bnt30_semantic_NP1 — bnt30_semantic_NP4

Description: Correct score with semantic cue from 30 items of "Boston Naming Test", NP Exam 1 - 4 (Range: 0 - 30)

BNT30_PHONEMIC_NP1 — BNT30_PHONEMIC_NP4

Variable name:	bnt30_phonemic_NP1 — bnt30_phonemic_NP4
Description:	Correct score with phonemic cue from 30 items of "Boston Naming Test",
	NP Exam 1 — 4 (Range: 0 – 30)

BNT36_NP1 — BNT36_NP4

Variable name:	bnt36_NP1 — bnt36_NP4
Description:	Correct score without cue from 36 items of "Boston Naming Test", NP
	Exam 1 — 4 (Range: 0 – 36)

BNT36_SEMANTIC_NP1 — BNT36_SEMANTIC_NP4

Variable name:bnt36_semantic_NP1 — bnt36_semantic_NP4Description:Correct score with semantic cue from 36 items of "Boston Naming Test",
NP Exam 1 — 4 (Range: 0 – 36)

BNT36 PHONEMIC NP1 — BNT36 PHONEMIC NP4

Variable name:	bnt36_phonemic_NP1 — bnt36_phonemic_NP4
Description:	Correct score with phonemic cue from 36 items of "Boston Naming Test",
	NP Exam 1 — 4 (Range: 0 – 36)

FINGTAPR_NP1 — FINGTAPR_NP4

Variable name:	FingTapR_NP1 — FingTapR_NP4
Description:	Mean of five trials of "Finger-tapping" of right hand, NP Exam $1-4$

FINGTAPL_NP1 — FINGTAPL_NP4

Variable name:	FingTapL_NP1 — FingTapL_NP4
Description:	Mean of five trials of "Finger-tapping" of left hand, NP Exam $1-4$

WRAT_NP1 — WRAT_NP4

Variable name:	wrat_NP1 — wrat_NP4
Description:	Raw Score from "Wide Range Achievement Test –Reading", NP Exam 1 —
	4 (Range: 15 – 57)

FAS_NP1 — FAS_NP4

Variable name:	fas_NP1 — fas_NP4
Description:	The total words (not including the animal part) from the Controlled Oral
	Word Association Test, NP Exam 1 — 4

FAS_ANIMAL_NP1 — FAS_ANIMAL_NP4

Variable name:fas_animal_NP1 — fas_animal_NP4Description:The total words from the animal part of the Category Naming Test, NP Exam1 - 4

Note: This variable only available on "NP battery2"

BD_NP1 — BD_NP4

Variable name:	bd_NP1 — bd_NP4
Description:	Total Score from "Block Design", NP Exam $1 - 4$ (Range: $0 - 26$)

WAIS_NP1 — WAIS_NP4

Variable name:	wais_NP1 — wais_NP4
Description:	Total correct answers from "WAIS test", NP Exam $1 - 4$ (Range: $0 - 29$)

CODING_CORRECT_NP1 — CODING_CORRECT_NP4

Variable name:	<pre>coding_correct_NP1 — coding_correct_NP4</pre>
Description:	Total correct from WAIS-IV Coding, NP Exam $1-4$

CODING_INCORRECT_NP1 — CODING_INCORRECT_NP4

Variable name:coding_incorrect_NP1 — coding_incorrect_NP4Description:Total incorrect from WAIS-IV Coding, NP Exam 1 — 4

INCIDENTAL_PAIRED_NP1 — INCIDENTAL_PAIRED_NP4

Variable name:Incidental_paired_NP1 — Incidental_paired_NP4Description:Total correct from Paired Incidental Learning (Given the number from
Coding, the participant had to draw the appropriate symbol associated
with that number; each number is presented twice), NP Exam 1 — 4

INCIDENTAL_FREE_NP1 — INCIDENTAL_FREE_NP4

Variable name: Incidental_free_NP1 — Incidental_free_NP4

Description: Total correct from Free Recall Incidental Learning (The participant was asked to draw all the symbols they remember from the Coding task, without having to identify which number accompanied the symbol), NP Exam 1 - 4

MATH_CORRECT_NP1 — MATH_CORRECT_NP4

Variable name:Math_correct_NP1 — Math_correct_NP4Description:Total correct responses for Math Fluency, NP Exam 1 — 4

MATH INCORRECT ADD NP1 - MATH INCORRECT ADD NP4

Variable name:Math_incorrect_add_NP1 — Math_incorrect_add_NP4Description:Incorrect responses for addition problems, NP Exam 1 — 4

MATH_INCORRECT_SUB_NP1 — MATH_INCORRECT_SUB_NP4

Variable name:Math_incorrect_sub_NP1 — Math_incorrect_sub_NP4Description:Incorrect responses for subtraction problems, NP Exam 1 — 4

MATH_INCORRECT_MUL_NP1 — MATH_INCORRECT_MUL_NP4

Variable name:	Math_incorrect_mul_NP1 — Math_incorrect_mul_NP4
Description:	Incorrect responses for multiplication problems, NP Exam $1-4$

RIGHT_OPEN_NP1 — RIGHT_OPEN_NP4

Variable name:right_open_NP1 — right_open_NP4Description:Seconds from balance test on right leg with eyes open (maximum time is
set at 30 seconds), NP Exam 1 — 4

LEFT_OPEN_NP1 — LEFT_OPEN_NP4

Variable name:left_open_NP1 — left_open_NP4Description:Seconds from balance test on left leg with eyes open (maximum time is
set at 30 seconds), NP Exam 1 — 4

RIGHT_CLOSE_NP1 — RIGHT_CLOSE_NP4

Variable name:right_close_NP1 — right_close_NP4Description:Seconds from balance test on right leg with eyes closed (maximum time
is set at 30 seconds), NP Exam 1 — 4

LEFT_CLOSE_NP1 — LEFT_CLOSE_NP4

Variable name:	left_close_NP1 — left_close_NP4
Description:	Seconds from balance test on left leg with eyes closed (maximum time is
	set at 30 seconds), NP Exam 1 — 4

MRI352_NP1 — MRI352_NP4

Variable name:	mri352_NP1 — mri352_NP4
Description:	Tester's impression of participant's dementia status (Not verified), NP
	Exam 1 — 4

Code or Value	Description
0	Not demented
0.25	Not demented/MCI
0.5	Mild Cognitive Impairment
1	Mildly Demented
1.5	Mild – Moderately Demented
2	Moderately Demented
2.5	Moderately – Severely Demented
3	Severely Demented
5	Non-progressive impairment
	Unknown

TEST_LANGUAGE_NP1 — TEST_LANGUAGE_NP4

Variable name: test_language_NP1 — test_language_NP4 **Description:** Language used during NP Exam 1 — 4

Code or Value

1	English
2	Spanish
	Unknown/Missing

NP_CLOSEST_EXAM_DATE1 — NP_CLOSEST_EXAM_DATE5

Variable name:	np_closest_exam_date1 — np_closest_exam_date5
Description:	FHS core exam date that was closest to the first — fifth NP test

NP_DAYS_APART1 — NP_DAYS_APART5

Variable name:	np_days_apart1 — np_days_5
Description:	The number of days between the FHS core exam date that was closest to
	the first — fifth NP test date.

Note: A negative value means that the FHS core exam that was closest to the NP test occurred prior to the NP test, while a positive value means that the closest FHS core exam occurred after the NP test.

NP_EXAM_CYCLE1 — NP_EXAM_CYCLE5

Variable name:	np_exam_cycle1 — np_exam_cycle5
Description:	FHS core exam cycle that was closest to the first — fifth NP test

Code or Value	Description
1	Core Exam 1
2	Core Exam 2
3	Core Exam 3
	Unknown

NORMAL_DATE

Variable name:	normal_date
Description:	Last date documented to be cognitively intact

Note: In event that the day and/or month of onset are uncertain, the day is default to 15 and the month is default to 6. The year of onset is always certain for all non-missing values.

IMPAIRMENT_DATE

Variable name:	impairment_date
Description:	Date of cognitive impairment onset

Note: In event that the day and/or month of onset are uncertain, the day is default to 15 and the month is default to 6. The year of onset is always certain for all non-missing values.

MILD_DATE

Variable name:	mild_date
Description:	Date of diagnosis of mild dementia

Note: In event that the day and/or month of onset are uncertain, the day is default to 15 and the month is default to 6. The year of onset is always certain for all non-missing values.

MODERATE_DATE

Variable name:	moderate_date
Description:	Date of diagnosis of moderate dementia

Note: In event that the day and/or month of onset are uncertain, the day is default to 15 and the month is default to 6. The year of onset is always certain for all non-missing values.

SEVERE_DATE

Variable name:	severe_date
Description:	Date of diagnosis of severe dementia

Note: In event that the day and/or month of onset are uncertain, the day is default to 15 and the month is default to 6. The year of onset is always certain for all non-missing values.

EDDD

Variable name:edddDescription:Earliest documented date of Dementia

Note: This date variable is an estimated onset date for dementia using the earliest dates of various supporting resources and/or derived from earliest documented date variables of "mild_date", "moderate_date" and "severe_dates". In certain situations, the "EDDD" may precede those derived using "mild_date", "moderate_date" and "severe_dates".

DEMRV046

Variable name:	demrv046
Description:	Probable Dementia present

Code or Value

Description

0	No
1	Yes
	Unknown

Note: This variable refers to <u>all-cause</u> dementia.

DEMRV103

Variable name:	demrv103
Description:	Dementia subtype

Code or Value

0	None
1	Alzheimer's disease without stroke
2	Alzheimer's disease with stroke
3	Vascular dementia without Alzheimer's disease
4	Mixed dementia type (Alzheimer's disease + vascular dementia)
5	Frontotemporal dementia
6	Dementia with Lewy bodies
7	Dementia that does not fit any other Category (progressive)
8	Dementia that does not fit any other category (non-progressive)

9	Cognitive Impairment – No Dementia
10	Dementia – Uncertain
	Unknown

Note: Value "9" refers to Cognitive impairment without Dementia. These subjects are verified to have mild cognitive impairment (MCI). However, it is also possible that participants, who had not yet been screened by the dementia consensus panel, may also suffer from mild cognitive impairment. Hence, if the research outcome of interest is mild cognitive impairment, it is advisable to also consider the psychometric results of the study population as part of the outcome evaluation.

FIRST_CHD_DATE

Variable name: first_chd_date

Description: Date of first Coronary Heart Disease (CHD) Event

Note: This variable is derived from the Sequence of Event (SoE) dataset, using the following values in (1, 2, 3, 4, 5, 6, 7, 8, 21, 22, 23, 24) for the variable "EVENT"

1	MI recognized with diagnostic FCC
1	MI recognized, with diagnostic ECG
2	MI recognized, without diagnostic ECG, with enzymes and
	history
3	MI recognized, without diagnostic ECG, with autopsy
	evidence, new event (see also code 9)
4	MI unrecognized, silent
5	MI unrecognized, not silent
6	AP, first episode only
7	CI, definite by both history and ECG
8	Questionable MI at exam 1
21	Death, CHD sudden, within 1 hour
22	Death, CHD, 1 - 23 hours, nonsudden
23	Death, CHD, 24-47 hours, non sudden
24	Death, CHD, 48 hours or more, non sudden
•	No record in SoE dataset

Event Values in SoE Dataset Description

Abbreviations:

MI – Myocardial Infarction ECG – Electrocardiogram

AP – Angina Pectoris

CI – Coronary Insufficiency

FIRST_STROKE_DATE

Variable name: first_stroke_date Description: Date of first Stroke (CVA) Event

Note: This variable is derived from the Sequence of Event (SoE) dataset, using the following values in (10, 11, 13, 14, 15, 16, 17, 19) for the variable "EVENT"

10	Definite CVA at exam 1, but questionable type
11	ABI (Atherothrombotic Infarction of brain)
13	Cerebral embolism
14	Intracerebral hemorrhage
15	Subarachnoid hemorrhage
16	Other CVA
17	CVA, definite CVA, type unknown
19	Questionable CVA at exam 1
•	No record in SoE dataset

Event Values in SoE Dataset Description

Abbreviations:

CVA – Cerebrovascular Accident

ABI – Atherothrombotic Infarction of Brain

FIRST_AF_DATE

Variable name: first_af_date

Description: Date for first Atrial Fibrillation (AF) Event

Note: This variable is derived from the verified Atrial Fibrillation (AF) dataset, using the values in (1, 2, 3) for the variable "RHYTHM"

Rhythm Values in AF Dataset Description

1	Atrial fibrillation
2	Atrial flutter
3	Atrial fibrillation / atrial flutter
	No record in AF dataset

FIRST_CANCER_DATE

Variable name: first_cancer_date Description: First diagnosis date of tumor or cancer

Note: This variable is derived from the verified Cancer dataset, using the variable "D_DATE"

TOPO_CANCER

Variable name: topo_cancer

Description: Topography - describes site - corresponds to first three digits of topography code WHO ICD-O

Note: This variable is derived from the verified Cancer dataset, using the variable "TOPO"

140Lip141Tongue142Major salivary gland143Gum144Floor of mouth145Other and unspecified parts of mouth146Oropharynx147Nasopharynx148Hypopharynx149Pharynx and ill-defined sites in lip, oral cavity and pharynx150Esophagus151Stomach152Small intestine153Colon154Rectum, rectosigmoid junction, anal canal and anus, not otherwise specified155Liver and intrahepatic bile ducts156Gallbladder and extrahepatic bile ducts157Pancreas158Retroperitoneum and peritoneum159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung163Pleura		<u>I</u>
142Major salivary gland143Gum144Floor of mouth145Other and unspecified parts of mouth146Oropharynx147Nasopharynx148Hypopharynx149Pharynx and ill-defined sites in lip, oral cavity and pharynx150Esophagus151Stomach152Small intestine153Colon154Rectum, rectosigmoid junction, anal canal and anus, not otherwise specified155Liver and intrahepatic bile ducts156Gallbladder and extrahepatic bile ducts157Pancreas158Retroperitoneum and peritoneum159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung	140	Lip
143Gum144Floor of mouth145Other and unspecified parts of mouth146Oropharynx147Nasopharynx148Hypopharynx149Pharynx and ill-defined sites in lip, oral cavity and pharynx150Esophagus151Stomach152Small intestine153Colon154Rectum, rectosigmoid junction, anal canal and anus, not otherwise specified155Liver and intrahepatic bile ducts156Gallbladder and extrahepatic bile ducts157Pancreas158Retroperitoneum and peritoneum159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung	141	Tongue
144Floor of mouth145Other and unspecified parts of mouth146Oropharynx147Nasopharynx148Hypopharynx149Pharynx and ill-defined sites in lip, oral cavity and pharynx150Esophagus151Stomach152Small intestine153Colon154Rectum, rectosigmoid junction, anal canal and anus, not otherwise specified155Liver and intrahepatic bile ducts156Gallbladder and extrahepatic bile ducts157Pancreas158Retroperitoneum and peritoneum159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung	142	Major salivary gland
145Other and unspecified parts of mouth146Oropharynx147Nasopharynx148Hypopharynx149Pharynx and ill-defined sites in lip, oral cavity and pharynx150Esophagus151Stomach152Small intestine153Colon154Rectum, rectosigmoid junction, anal canal and anus, not otherwise specified155Liver and intrahepatic bile ducts156Gallbladder and extrahepatic bile ducts157Pancreas158Retroperitoneum and peritoneum159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung	143	Gum
146Oropharynx147Nasopharynx148Hypopharynx149Pharynx and ill-defined sites in lip, oral cavity and pharynx150Esophagus151Stomach152Small intestine153Colon154Rectum, rectosigmoid junction, anal canal and anus, not otherwise specified155Liver and intrahepatic bile ducts156Gallbladder and extrahepatic bile ducts157Pancreas158Retroperitoneum and peritoneum159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung	144	Floor of mouth
147Nasopharynx148Hypopharynx149Pharynx and ill-defined sites in lip, oral cavity and pharynx150Esophagus151Stomach152Small intestine153Colon154Rectum, rectosigmoid junction, anal canal and anus, not otherwise specified155Liver and intrahepatic bile ducts156Gallbladder and extrahepatic bile ducts157Pancreas158Retroperitoneum and peritoneum159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung	145	Other and unspecified parts of mouth
148Hypopharynx149Pharynx and ill-defined sites in lip, oral cavity and pharynx150Esophagus151Stomach152Small intestine153Colon154Rectum, rectosigmoid junction, anal canal and anus, not otherwise specified155Liver and intrahepatic bile ducts156Gallbladder and extrahepatic bile ducts157Pancreas158Retroperitoneum and peritoneum159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung	146	Oropharynx
149Pharynx and ill-defined sites in lip, oral cavity and pharynx150Esophagus151Stomach152Small intestine153Colon154Rectum, rectosigmoid junction, anal canal and anus, not otherwise specified155Liver and intrahepatic bile ducts156Gallbladder and extrahepatic bile ducts157Pancreas158Retroperitoneum and peritoneum159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung	147	Nasopharynx
150Esophagus151Stomach152Small intestine153Colon154Rectum, rectosigmoid junction, anal canal and anus, not otherwise specified155Liver and intrahepatic bile ducts156Gallbladder and extrahepatic bile ducts157Pancreas158Retroperitoneum and peritoneum159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear162Trachea bronchus, and lung	148	Hypopharynx
151Stomach152Small intestine153Colon154Rectum, rectosigmoid junction, anal canal and anus, not otherwise specified155Liver and intrahepatic bile ducts156Gallbladder and extrahepatic bile ducts157Pancreas158Retroperitoneum and peritoneum159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung	149	Pharynx and ill-defined sites in lip, oral cavity and pharynx
152Small intestine153Colon154Rectum, rectosigmoid junction, anal canal and anus, not otherwise specified155Liver and intrahepatic bile ducts156Gallbladder and extrahepatic bile ducts157Pancreas158Retroperitoneum and peritoneum159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung	150	Esophagus
153Colon154Rectum, rectosigmoid junction, anal canal and anus, not otherwise specified155Liver and intrahepatic bile ducts156Gallbladder and extrahepatic bile ducts157Pancreas158Retroperitoneum and peritoneum159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung	151	Stomach
154Rectum, rectosigmoid junction, anal canal and anus, not otherwise specified155Liver and intrahepatic bile ducts156Gallbladder and extrahepatic bile ducts157Pancreas158Retroperitoneum and peritoneum159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung	152	Small intestine
otherwise specified155Liver and intrahepatic bile ducts156Gallbladder and extrahepatic bile ducts157Pancreas158Retroperitoneum and peritoneum159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung	153	Colon
155Liver and intrahepatic bile ducts156Gallbladder and extrahepatic bile ducts157Pancreas158Retroperitoneum and peritoneum159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung	154	Rectum, rectosigmoid junction, anal canal and anus, not
156Gallbladder and extrahepatic bile ducts157Pancreas158Retroperitoneum and peritoneum159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung		otherwise specified
157Pancreas158Retroperitoneum and peritoneum159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung	155	Liver and intrahepatic bile ducts
158Retroperitoneum and peritoneum159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung	156	Gallbladder and extrahepatic bile ducts
159Other and ill-defined sites within digestive organs and peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung	157	Pancreas
peritoneum160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung	158	Retroperitoneum and peritoneum
160Nasal cavities, accessory sinuses, middle ear and inner ear161Larynx162Trachea bronchus, and lung	159	Other and ill-defined sites within digestive organs and
161Larynx162Trachea bronchus, and lung		peritoneum
162 Trachea bronchus, and lung	160	Nasal cavities, accessory sinuses, middle ear and inner ear
	161	Larynx
163 Pleura	162	Trachea bronchus, and lung
	163	Pleura

Rhythm Values in AF Dataset Description

164	Thymus, heart and mediastinum
165	Other and ill-defined sites within respiratory system and
	intrathoracic organs
169	Hematopoietic and reticuloendothelial systems
170	Bones, joints and articular cartilage
171	Connective, subcutaneous and other soft tissues
173	Skin (excludes skin of labia majora, skin of vulva, skin of
474	penis and skin of scrotum)
174	Female breast (excludes skin of breast)
175	Male breast (excludes skin of breast)
179	Uterus, not otherwise specified
180	Cervix uteri
181	Placenta
182	Corpus uteri or endometrium
183	Ovary, fallopian tube and broad ligament
184	Other and unspecified female genital organs
185	Prostate gland
186	Testis
187	Penis and other male genital organs
188	Urinary bladder
189	Kidney and other urinary organs
190	Eye and lacrimal gland
191	Brain
192	Other and unspecified parts of the nervous system
	(excludes 4 peripheral nerves, sympathetic and
	parasympathetic nerves and ganglia)
193	Thyroid gland
194	Other endocrine glands
195	Other ill-defined sites
196	Lymph nodes
199	Unknown primary site
	No record in Cancer dataset

LOCATION_CANCER

Variable name: location_cancer

Description: Location - describes subdivision of site - corresponds to fourth digit of topography code WHO ICD-O

Note: This variable is derived from the verified Cancer dataset, using the variable "LOCATION"

Code or Value

Description

0 – 9 Range of values

HIST_CANCER

Variable name: hist_cancer

Description: Histology or morphology - describes cell histopathology - corresponds to four digit morphology code WHO ICD-O

Note: This variable is derived from the verified Cancer dataset, using the variable "HIST"

Code or Value	Description
8000 – 9990	Range of values

LAST_CONTACT_DATE

Variable name: Description:	Last_contact_date Date of last contact (This is the last time the participant was known to be alive
Note:	This date is censored to be the last day of 2020 if the last contact date was after the last day of 2020.
DEATH_DATE	

Variable name:	Death_date
Description:	Date of death

PREVALENT_CHD_CORE1 – PREVALENT_CHD_CORE3

Variable name:	prevalent_chd_core1 – prevalent_chd_core3
Description:	History of CHD present at core exam 1 – 3

Code or Value

Description

0	No
1	Yes
	Did not attend core exam

Note: This variable is derived using the variable "first_chd_date" and the respective FHS core exam date variables "date_core".

PREVALENT_STROKE_CORE1 - PREVALENT_STROKE_CORE3

Variable name:	<pre>prevalent_stroke_core1 - prevalent_stroke_core3</pre>
Description:	History of stroke present at core exam 1 – 3

Code or Value

Description

0	No
1	Yes
	Did not attend core exam

Note: This variable is derived using the variable "first_stroke_date" and the respective FHS core exam date variables "date core".

PREVALENT_AF_CORE1 – PREVALENT_AF_CORE3

Variable name:prevalent_af_core1 - prevalent_af_core3Description:History of AF present at core exam 1 - 3

Code or Value

Description

0	No
1	Yes
	Did not attend core exam

Note: This variable is derived using the variable "first_af_date" and the respective FHS core exam date variables "date core".

PREVALENT_DEMENTIA_CORE1 – PREVALENT_DEMENTIA_CORE3

Variable name:	prevalent_dementia_core1 – prevalent_dementia_core3
Description:	History of dementia present at core exam 1 – 3

Code or Value

Description

0	No
1	Yes
	Did not attend core exam

Note: This variable is derived using the variable "eddd" and the respective FHS core exam date variables "date_core".

PREVALENT_CANCER_CORE1 – PREVALENT_CANCER_CORE3

Variable name:	prevalent_cancer_core1 – prevalent_cancer_core3
Description:	History of cancer present at core exam 1 – 3

Code or Value

Description

0	No
1	Yes
	Did not attend core exam

Note: This variable is derived using the variable "first_cancer_date" and the respective FHS core exam date variables "date_core".

PREVALENT_CHD_NP1 - PREVALENT_CHD_NP5

Variable name:	prevalent_chd_np1 – prevalent_chd_np5
Description:	History of CHD present at NP test 1 – 5

Code or Value

Description

0	No
1	Yes
	Did not attend NP test

Note: This variable is derived using the variable "first_chd_date" and the respective NP test date variables "examdate_np".

PREVALENT_STROKE_NP1 - PREVALENT_STROKE_NP5

Variable name:	prevalent_stroke_np1 – prevalent_stroke_np5
Description:	History of stroke present at NP test 1 – 5

Code or Value

Description

0	No
1	Yes
	Did not attend NP test

Note: This variable is derived using the variable "first_stroke_date" and the respective NP test date variables "examdate_np".

PREVALENT_AF_NP1 - PREVALENT_AF_NP5

Variable name:prevalent_af_np1 - prevalent_af_np5Description:History of AF present at NP test 1 - 5

Code or Value

Description

0	No
1	Yes
	Did not attend NP test

Note: This variable is derived using the variable "first_af_date" and the respective NP test date variables "examdate_np".

PREVALENT_DEMENTIA_NP1 - PREVALENT_DEMENTIA_NP5

Variable name:	prevalent_dementia_np1 – prevalent_dementia_np5
Description:	History of dementia present at NP test 1 – 5

Code or Value

Description

0	No
1	Yes
	Did not attend NP test

Note: This variable is derived using the variable "eddd" and the respective NP test date variables "examdate_np".

PREVALENT_CANCER_NP1 - PREVALENT_CANCER_NP5

Variable name:	prevalent_cancer_np1 – prevalent_cancer_np5
Description:	History of cancer present at NP test 1 – 5

Code or Value

Description

0	No
1	Yes
	Did not attend NP test

Note: This variable is derived using the variable "first_cancer_date" and the respective NP test date variables "examdate_np".

Refer to publication: D'Agostino Sr, R. B., Vasan, R. S., Pencina, M. J., Wolf, P. A., Cobain, M., Massaro, J. M., & Kannel, W. B. (2008). General cardiovascular risk profile for use in primary care: the Framingham Heart Study. *Circulation*, *117*(6), 743-753.

AGE_FHSCVD_CORE1 – AGE_FHSCVD_CORE3

Variable name:	age_fhscvd_core1 – age_fhscvd_core3
Description:	Age component for FHS CVD risk score at exam $1-3$

Code or Value

Description

0 - 15	Range of values
	Did not attend core exam or out of bounds

HDL_FHSCVD_CORE1 – HDL_FHSCVD_CORE3

Variable name:	hdl_fhscvd_core1 – hdl_fhscvd_core3
Description:	HDL component for FHS CVD risk score at exam $1-3$

Code or Value

Description

-2 - 2	Range of values
	Did not attend core exam or out of bounds

TC_FHSCVD_CORE1 – TC_FHSCVD_CORE3

Variable name:tc_fhscvd_core1 - tc_fhscvd_core3Description:TC (Total Cholesterol) component for FHS CVD risk score at exam 1 - 3

Code or Value	Description
0 – 5	Range of values
	Did not attend core exam or out of bounds

SMOKING_FHSCVD_CORE1 – SMOKING_FHSCVD_CORE3

Variable name:	smoking_fhscvd_core1 – smoking_fhscvd_core3
Description:	Current smoker component for FHS CVD risk score at exam $1-3$

Code or Value

Description

0	No
3	Yes (Female)
4	Yes (Male)
	Did not attend core exam or out of bounds

DM_FHSCVD_CORE1 - DM_FHSCVD_CORE3

Variable name:	dm_fhscvd_core1 – dm_fhscvd_core3
Description:	History of diabetes component for FHS CVD risk score at exam $1-3$

Code or Value

Description

0	No
3	Yes (Male)
4	Yes (Female)
	Did not attend core exam or out of bounds

SBP_FHSCVD_CORE1 - SBP_FHSCVD_CORE3

Variable name:sbp_fhscvd_core1 - sbp_fhscvd_core3Description:Systolic blood pressure component for FHS CVD risk score at exam 1 - 3

Code or Value	Description
-3 - 7	Range of values
	Did not attend core exam or out of bounds

FHSCVD_CORE1 – FHSCVD_CORE3

Variable name:	fhscvd_core1 – fhscvd_core3
Description:	FHS CVD risk score at exam $1-3$

fhscvd_core = age_fhscvd_core + hdl_fhscvd_core + tc_fhscvd_core + smoking_fhscvd_core + dm_fhscvd_core + sbp_fhscvd_core

Code or Value

Description

-5 – 36	Range of values
	Did not attend core exam or out of bounds

Note: This derived variable is only available if all components of the FHS CVD risk score are available. Refer to publication for more information

Refer to publications:

Wolf, P. A., D'Agostino, R. B., Belanger, A. J., & Kannel, W. B. (1991). Probability of stroke: a risk profile from the Framingham Study. *Stroke*, *22*(3), 312-318.

Dufouil, C., Beiser, A., McLure, L. A., Wolf, P. A., Tzourio, C., Howard, V. J., ... & Seshadri, S. (2017). Revised Framingham stroke risk profile to reflect temporal trends. *Circulation*, *135*(12), 1145-149.

AGE_FSRP_CORE1 - AGE_FSRP_CORE3

Variable name:	age_fsrp_core1 – age_fsrp_core3
Description:	Age component for FSRP at exam $1-3$

Code or Value

Description

0-10	Range of values
	Did not attend core exam or out of bounds

SBP_FSRP_CORE1 - SBP_FSRP_CORE3

Variable name:	<pre>sbp_fsrp_core1 - sbp_fsrp_core3</pre>
Description:	Systolic blood pressure component for FSRP at exam $1-3$

Code or Value

Description

0-10	Range of values
	Did not attend core exam or out of bounds

HRX FSRP CORE1 – HRX FSRP CORE3

Variable name:hrx_fsrp_core1 - hrx_fsrp_core3Description:Anti-hypertensive medications usage component for FSRP at exam 1 - 3

Code or Value

Description

0	No
2	Yes (Male)
0-6	Yes (Female)
	Did not attend core exam or out of bounds

DM_FSRP_CORE1 - DM_FSRP_CORE3

Variable name:	dm_fsrp_core1 – dm_fsrp_core3
Description:	History of diabetes component for FSRP at exam $1-3$

Code or Value

Description

0	No
2	Yes (Male)
3	Yes (Female)
	Did not attend core exam or out of bounds

SMOKING_FSRP_CORE1 – SMOKING_FSRP_CORE3

Variable name:	<pre>smoking_fsrp_core1 - smoking_fsrp_core3</pre>
Description:	Current smoker component for FSRP at exam $1-3$

Code or Value

Description

0	No
3	Yes
	Did not attend core exam or out of bounds

PRECVD_FSRP_CORE1 - PRECVD_FSRP_CORE3

Variable name:	precvd_fsrp_core1 – precvd_fsrp_core3
Description:	History of CVD component for FSRP at exam $1 - 3$

Code or Value

Description

0	No
2	Yes (Feale)
3	Yes (Male)
	Did not attend core exam or out of bounds

Note:

The definition of CVD is not the same as that of the variable "first_chd_date".

This variable includes the following conditions:

- Myocardial Infarction
- Angina Pectoris
- Coronary Heart Disease

- Cardiovascular Disease
- Coronary Insufficiency
- Intermittent Claudication
- Congestive Heart Failure

This aligns with the code values of (1, 2, 3, 4, 5, 6, 7, 8, 9, 21, 22, 23, 24, 26, 30, 39, 40, 41, 49) for variable "event" in the verified Sequence of Events (SOE) Cardiovascular Endpoints dataset.

Refer to publication for more information

PREAF_FSRP_CORE1 - PREAF_FSRP_CORE3

Variable name:	preaf_fsrp_core1 – preaf_fsrp_core3
Description:	History of AF component for FSRP at exam $1-3$

Code or Value

Description

0	No
4	Yes (Male)
6	Yes (Female)
	Did not attend core exam or out of bounds

DLVH_FSRP_CORE1 - DLVH_FSRP_CORE3

Variable name:	dlvh_fsrp_core1 – dlvh_fsrp_core3
Description:	Ventricular hypertrophy component for FSRP at exam $1-3$

Code or	Value
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Description

0	No
4	Yes (Female)
6	Yes (Male)
	Did not attend core exam or out of bounds

FSRP_CORE1 – FSRP_CORE3

Variable name:	fsrp_core1 – fsrp_core3
Description:	FSRP at exam 1 – 3

fsrp_core = age_fsrp_core + sbp_fsrp_core + hrx_fsrp_core + dm_fsrp_core +
smoking_fsrp_core + precvd_fsrp_core + preaf_fsrp_core + dlvh_fsrp_core

Code or Value

Description

0 - 44	Range of values
	Did not attend core exam or out of bounds

Note: This derived variable is only available when all components of the FSRP are available. Refer to publication for more information

REVISED_FSRP_CORE1 - REVISED_FSRP_CORE3

Variable name:	revised_fsrp_core1 – revised_fsrp_core3
Description:	Revised FSRP at exam 1 – 3

<pre>revised_fsrp_core = age_fsrp_core + sbp_fsrp_core + hrx_fsrp_core + dm_</pre>	_fsrp_core +
smoking_fsrp_core + precvd_fsrp_core + preaf_fsrp_core	

Code or Value	Description
0 - 44	Range of values
	Did not attend core exam or out of bounds

Note: This derived variable is only available when all components of the FSRP are available. Refer to publication for more information

CESD_CORE1_1 — CESD_CORE3_1

Variable name: $CESD_core1_1 - CESD_core3_1$ Description: CESD: I was bothered by things that usually don't bother me (at exam 1 - 3)

Code or Value

Description

0	<1 day
1	1 – 2 days
2	3 – 4 days
3	5 – 7 days
	Unknown

CESD_CORE1_2 - CESD_CORE3_2

Variable name: $CESD_core1_2 - CESD_core3_2$ Description: CESD: I did not feel like eating: my appetite was poor (at exam 1 - 3)

Code or Valu

Description

0	<1 day
1	1 – 2 days
2	3 – 4 days
3	5 – 7 days
	Unknown

CESD_CORE1_3 — CESD_CORE3_3

Variable name: CESD_core1_3 — CESD_core3_3

Description: CESD: I felt that I could not shake off the blues, even with the help of family and friends (at exam 1 - 3)

0	<1 day
1	1 – 2 days
2	3 – 4 days
3	5 – 7 days
	Unknown

CESD_CORE1_4 — CESD_CORE3_4

Variable name: CESD_core1_4 — CESD_core3_4

Description: CESD: I felt that I was just as good as other people (at exam 1 - 3)

0	<1 day
1	1 – 2 days
2	3 – 4 days
3	5 – 7 days
	Unknown

CESD_CORE1_5 — CESD_CORE3_5

Variable name: CESD_core1_5 — CESD_core3_4

Description: CESD: I had trouble keeping my mind on what I was doing (at exam 1 - 3)

0	<1 day
1	1 – 2 days
2	3 – 4 days
3	5 – 7 days
	Unknown

CESD_CORE1_6 — CESD_CORE3_6

Variable name: CESD_core1_6 — CESD_core3_6 Description: CESD: I felt depressed (at exam 1 — 3)

0	<1 day
1	1 – 2 days
2	3 – 4 days
3	5 – 7 days
	Unknown

CESD_CORE1_7 — CESD_CORE3_7

Variable name: $CESD_core1_7 - CESD_core3_7$ Description: CESD: I felt that everything I did was an effort (at exam 1 - 3)

0	<1 day
1	1 – 2 days
2	3 – 4 days
3	5 – 7 days
	Unknown

CESD_CORE1_8 — CESD_CORE3_8

Variable name: CESD_core1_8 — CESD_core3_8 Description: CESD: I felt hopeful about the future (at exam 1 - 3)

0	<1 day
1	1 – 2 days
2	3 – 4 days
3	5 – 7 days
	Unknown

CESD_CORE1_9 — CESD_CORE3_9

Variable name: CESD_core1_9 — CESD_core3_9 Description: CESD: I thought my life had been a failure (at exam 1 - 3)

0	<1 day
1	1 – 2 days
2	3 – 4 days
3	5 – 7 days
	Unknown

CESD_CORE1_10 — CESD_CORE3_10

Variable name: CESD_core1_10 — CESD_core3_10 Description: CESD: I felt fearful (at exam 1 - 3)

0	<1 day
1	1 – 2 days
2	3 – 4 days
3	5 – 7 days
	Unknown

CESD_CORE1_11 — CESD_CORE3_11

Variable name: CESD_core1_11 — CESD_core3_11 Description: CESD: My sleep was restless (at exam 1 — 3)

0	<1 day
1	1 – 2 days
2	3 – 4 days
3	5 – 7 days

. Unknown

CESD_CORE1_12 — CESD_CORE3_12

Variable name: $CESD_core1_12 - CESD_core3_12$ Description: CESD: I was happy (at exam 1 - 3)

0	<1 day
1	1 – 2 days
2	3 – 4 days
3	5 – 7 days
	Unknown

CESD_CORE1_13 — CESD_CORE3_13

Variable name: CESD_core1_13 — CESD_core3_13 Description: CESD: I talked less than usual (at exam 1 - 3)

0	<1 day
1	1 – 2 days
2	3 – 4 days
3	5 – 7 days
	Unknown

CESD_CORE1_14 — CESD_CORE3_14

Variable name: CESD_core1_14 — CESD_core3_14 Description: CESD: I felt lonely (at exam 1 — 3)

0	<1 day
1	1 – 2 days
2	3 – 4 days
3	5 – 7 days
	Unknown

CESD_CORE1_15 — CESD_CORE3_15

Variable name: CESD_core1_15 — CESD_core3_15 Description: CESD: People were unfriendly (at exam 1 - 3)

0	<1 day
	-

1	1 – 2 days
2	3 – 4 days
3	5 – 7 days
	Unknown

CESD_CORE1_16 — CESD_CORE3_16

Variable name: CESD_core1_16 — CESD_core3_16 Description: CESD: I enjoyed life (at exam 1 — 3)

0	<1 day
1	1 – 2 days
2	3 – 4 days
3	5 – 7 days
	Unknown

CESD_CORE1_17 — CESD_CORE3_17

Variable name: CESD_core1_17 — CESD_core3_17 Description: CESD: I had crying spells (at exam 1 — 3)

0	<1 day
1	1 – 2 days
2	3 – 4 days
3	5 – 7 days
	Unknown

CESD_CORE1_18 — CESD_CORE3_18

Variable name: CESD_core1_18 — CESD_core3_18 Description: CESD: I felt sad (at exam 1 — 3)

0	<1 day
1	1 – 2 days
2	3 – 4 days
3	5 – 7 days
	Unknown

CESD_CORE1_19 — CESD_CORE3_19

Variable name: CESD_core1_19 — CESD_core3_19

Center for Epidemiologic Studies Depression Scale (CES-D)

0	<1 day
1	1 – 2 days
2	3 – 4 days
3	5 – 7 days
	Unknown

Description: CESD: I felt that people disliked me (at exam 1 - 3)

CESD_CORE1_20 — CESD_CORE3_20

Variable name: CESD_core1_20 — CESD_core3_20 Description: CESD: I could not "get going" (at exam 1 — 3)

0	<1 day
1	1 – 2 days
2	3 – 4 days
3	5 – 7 days
	Unknown

CESD_TOTAL_CORE1 — CESD_TOTAL_CORE3

Variable name: CESD_total_core1 — CESD_total_core3 Description: CESD total score at exam 1 — 3

Note: The total CES-D scores are calculated for participants who *answered all 20 questions*.

NEUROPATH_AVAIL

Variable name: neuropath_avail Description: Availability of brain autopsy data

Code or ValueDescription0No1Yes

NPBRAAK_NEUROPATH

Variable name: NPBRAAK_NEUROPATH

Description: Braak stage for neurofibrillary degeneration (B score). Use standard blocks to assign phase.

Code	or Value	
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Description

0	Stage 0: AD-type neurofibrillary degeneration not present (B0)
1	Stage I (B1)
2	Stage II (B2)
3	Stage III (B3)
4	Stage IV (B4)
5	Stage V (B5)
6	Stage VI (B6)
	Missing

NIA_REAGAN_NEUROPATH

Variable name: NIA_REAGAN_NEUROPATH Description: Derived NIA-Reagan Criteria

Code or Value

Description

1	High likelihood dementia due to AD
2	Intermediate likelihood dementia due to AD
3	Low likelihood dementia due to AD
4	Criteria not met
	Missing

AD_NEUROPATH

Variable name: AD_NEUROPATH Description: Neuropathological presence of Alzheimer's disease

Code or Value

Description

0	No
1	Yes
	Missing

RELATAUO_NEUROPATH

Variable name: RELATAUO_NEUROPATH

Description: Primary age-related tauopathy (PART; requires NFTs present with Braak stage <= IV, usually III or lower)

Code or Value

Description

0	Not present
1	Yes (Crary et al., 2014)
	Missing

LBD_NEUROPATH

Variable name: LBD_NEUROPATH Description: Neuropathological presence of Lewy body disease

Code or Value	Description
0	Not present
1	LBD Brainstem predominant
2	LBD limbic/neocortical
	Missing

MND_NEUROPATH

Variable name: MND_NEUROPATH Description: Neuropathological presence of ALS/Motor neuron disease

Code or Value	Description
0	Not present
1	Yes, with TDP-43 inclusions in motor neurons
2	Yes, with FUS inclusions in motor neurons
3	Yes, with SOD1 inclusions in motor neurons
4	Yes, with other inclusions
5	Yes, with no specific inclusions
8	Not assessed
	Missing

Appendix

Generation 3 Cohort (idtype =3)				
Exam #	Exam Date Range	Age Range	Mean Age	Total # of Participants
1	2002-2005	19-71	40	4095
2	2008-2011	24-78	47	3411
3	2016-2019	32-84	54	3171

New Offspring Spouse Cohort (idtype=2)				
Exam #	Exam Date Range	Age Range	Mean Age	Total # of Participants
1	2002-2005	47-85	65	103
2	2008-2011	53-90	70	68
3	2016-2019	60-93	75	56

Omni 2 Cohort (idtype=72)				
Exam #	Exam Date Range	Age Range	Mean Age	Total # of Participants
1	2003-2005	20-80	43	410
2	2009-2011	25-85	48	321
3	2016-2019	32-89	54	294

Revisions		
08/03/2018	 Original Draft Coding Manual of Master_Dataset_2372_080318 Dataset: Master_Dataset_2372_080318 	
08/13/2018	 Revision of 08/03/2018 draft Minor typo/grammatical/format corrections Addition of "Derived Variables" section with SAS code embedded Added information to cover page of manual Amended date of "Last Updated" Added user advice to "Neuropsychological Test", "Digital Clock Drawing Test" and "MRI Brain Scans" sections Added user advice to the variable Last_Contacted_Date under "Verified Survival Status (Alive/Dead)" Coding manual has been renamed as "Coding Manual of Master_Dataset_2372_081318" Dataset has been renamed as "Master_Dataset_2372_081318" 	
08/21/2018	 Revision of 08/13/2018 draft Minor typo/grammatical/format corrections Coding manual has been renamed as "Coding Manual of Master_Dataset_2372_082118" Dataset has been renamed as "Master_Dataset_2372_082118" 	
08/30/2018	 Revision of 08/21/2018 draft Added information regarding interpretation of the range values of the "Neuropsychological Test" section in the introductory summary Minor typo/grammatical/format corrections Coding manual has been renamed as "Coding Manual of Master_Dataset_2372_082118 (Last Updated 083018)" No change to dataset or dataset name 	
Feb 2021	Revision of 08/30/2018 draft • Added variables "idtype" and "id"	

[
	 Dataset has been renamed as
	"Curated_cohort2372_022021"
	Available in both SAS and csv files
Nov 2021	Revision of Feb 2021
	 Added selected variables from FHS core exam 3
	 Added dementia review data
	 Updated neuropsychological summary scores
	and date-related variables up to year 2019
	 Dataset has been renamed as
	"curated2372_11_2021"
	 Available in both SAS and csv files
Feb 2023	Revision of Nov 2021 draft
	 Included data up to year 2022
	 Simplify coding manual format to reduce the length
	 Renamed all NP test related variables using
	suffix "NP" for clearer annotation
	 Added more clinical outcomes and related
	variables
	Added neuropath section
	 Removed selected medications and biomarker
	data till harmonized variables are created
	 Typo/grammatical/format corrections
	 Provided SAS code to include list of requested
	datasets to generate similar curated dataset
	format
March 2023	Revision of Feb 2023 draft
	 Updated neuropath section
	 Typo/grammatical/format corrections
April 2023	Revision of March 2023 draft
· · · · · · · · · · · · · · · · · · ·	Included prevalence variables
	 Typo/grammatical/format corrections
	i i i i i por granina con
May 2023	Revision of April 2023 draft
	Included FHS CVD Risk Score FSRP
	 Updated the following section:
	• NP summary scores
	 Matching NP dates with core exam dates
	 Dementia Review
	 Sequence of event (CHD, Stroke)
	 Atrial Fibrillation

	 Prevalence
	 Typo/grammatical/format corrections
July 2023	Revision of May 2023 draft
	Correction of date format and missing EDDD
	values
Feb 2024	 Revision of July 2023 draft Major update to outcome and mortality data Sequence of event (CHD, Stroke) Atrial Fibrillation Survival Information Added derived variable for Race Added derived variable for Education Added history of smoking derived variable Typo/grammatical/format corrections
March 2024	 Revision of Feb 2024 draft Format correction to neuropath variables Update of neuropath variables to include data up to 2023 Typo/grammatical/format corrections of manual
April 2024	 Revision of March 2024 draft Update of dementia review variables to include data up to 2023
May 2024	 Revision of April 2024 draft Added information regarding consent restrictions in the foreword Update of NP summary score variables to include data up to 2023
Sept 2024	 Revision of May 2024 draft Update of "edu_all" variable for participants with more education information Correction of missing value for "educg_np1" variable
Oct 2024	 Revision of Sept 2024 draft Addition of alcohol consumption variables Adjustment to race variables Typo correction in SAS code

	 Exam 2 dataset in SAS code updated to e_exam_ex02_3b_0017_v2
May 2025	 Revision of Oct 2024 draft Update of race source dataset and correction for race and ethnicity variables Update of dementia review source dataset to include data up to 2024 Update of neuropath source dataset to include data up to 2024 Curated dataset SAS code now contains an additional section to create compatible version for external sharing