FRAMINGHAM HEART STUDY CODING MANUAL

Sequence of Events (SOE) Cardiovascular Endpoints (includes death)

COHORT: Original, Offspring, Generation 3, New Offspring Spouse, Omni 1, Omni 2

TIME INTERVAL: Events reviewed through 12/2010

DATASET NAME: vr_soe_2013_a_0550d

OBSERVATIONS: 18458

Variables that define a unique record: PID, EVENT, DATE, LINENUM, PAGENUM.

A unique study participant is defined by variables: IDTYPE, ID.

Each event is a separate record in this file. If a unique study participant has two or more events with the same date value, the order of events in the dataset does not necessarily reflect the natural order of events.

This dataset is generated annually. Included are events reviewed on or before 12/2010. Events reviewed after 12/2010 will appear in the next annual update. Events can take up to two years to be reviewed after they become known. This file does not represent follow up through 12/2013. The corresponding survival file contains follow up information and lags one year behind.

This dataset replaces dataset vr_soe_2012_m_0782.

ABBREVIATIONS:
CHD - Coronary Heart Disease
MI - Myocardial Infarction
ECG - Electrocardiogram
AP - Angina Pectoris
CI - Coronary Insufficiency
CVA - Cerebrovascular Accident
ABI - Atherothrombotic Infarction of Brain
TIA - Transient Ischemic Attack
CVD - Cardiovascular Disease
IC - Intermittent Claudication
CHF - Congestive Heart Failure

This dataset is a modified version of the original dataset. Some observations were deleted due to consent restrictions. This coding manual is based on the original dataset. Therefore the value ranges, number of observations and/or cohorts found in the modified dataset, may differ from those stated in this manual.

IDTYPE

Variable name: IDTYPE

Description: Framingham Heart Study cohort identifier

Code or Value	Description	Count
0	Original Cohort (Generation 1)	12915
1	Offspring Cohort (Generation 2)	4979
2	New Offspring Spouse Cohort (Generation 2)	53
3	Generation 3 Cohort (Generation 3)	246
7	Omni 1 Cohort	219
72	Omni 2 Cohort	46

ID

Variable name: ID

Description: Framingham Heart Study participant identifier within a cohort

Note: IDTYPE and ID taken together form a unique study participant identification number.

ID deleted - use random ID (PID)

PID

Variable name: PID

Description: Random ID

EVENT

Variable name: EVENT
Description: Event Number

Code or Value	Description	Count
1	MI recognized, with diagnostic ECG	1172
2	MI recognized, without diagnostic ECG, with enzymes and history	782
3	MI recognized, without diagnostic ECG, with autopsy evidence, new event (see also code 9)	85
4	MI unrecognized, silent	255
5	MI unrecognized, not silent	302
6	AP, first episode only	1605
7	CI, definite by both history and ECG	573
8	Questionable MI at exam 1	62
9	Acute MI by autopsy, previously coded as 1 or 2	50
10	Definite CVA at exam 1, but questionable type	4
11	ABI (Atherothrombotic Infarction of brain)	1047
12	TIA (Transient Ischemic Attack) only the 1st TIA is coded	512
13	Cerebral embolism	463
14	Intracerebral hemorrhage	163
15	Subarachnoid hemorrhage	89
16	Other CVA	29
17	CVA, definite CVA, type unknown	1
19	Questionable CVA at exam 1	8
21	Death, CHD sudden, within 1 hour	492
22	Death, CHD, 1-23 hours, non sudden	240
23	Death, CHD, 24-47 hours, non sudden	78
24	Death, CHD, 48 hours or more, non sudden	450
25	Death, CVA	428
26	Death, other CVD	592
27	Death, Cancer	1757
28	Death, other causes	2064
29	Death, cause unknown	782
30	IC, first episode only	813

39	IC, questionable IC at exam 1	18
40	CHF, not hospitalized, diagnosed on basis of on exam or MD notes	463
41	CHF, hospitalized	3070
49	CHF, questionable CHF at exam 1	9

Note: For EVENT = 1 - 5

MI: Recognized means at time of MI occurrence, an MI was known to have taken place. Unrecognized means MI was not known to have taken place until later. Silent MI means at time of MI, there were no symptoms similar to MI symptoms. Not silent means that symptoms were present.

Unrecognized MI's are dated using the midpoint between the dates of the diagnostic ECG's. Hierarchy for coding MI is based on strongest evidence: EVENT=01 > EVENT=02 > EVENT=03.

For EVENT = 6
AP, First episode only: If date of was unavailable, AP is dated as midpoint of the interval between medical encounters (FHS exams, hospitalizations or MD office visits). If AP occurred with MI or CI, then use same date as MI or CI.

Before 1987, if AP occurred just before MI or CI, then AP date was assigned 3 months before MI or CI. If AP occurred just after MI or CI, then AP date was assigned 3 months after MI or CI.

Beginning in 1987, if approximate or exact date of new angina was available, then that date was assigned as date of AP.

For EVENT = 8
 Questionable MI at exam 1: Date same date as Exam 1 for Original cohort and Offspring cohort. For the other cohort groups, a date other than the Exam 1 date is used if available. Any questionable MI episode at Exam 1, including definite history only without enzymes or ECG. Does not include questionable AP.

For EVENT = 9
Acute MI on autopsy, not a new event: This is coded when there has been a previously coded MI (1 or 2) and that MI shows on autopsy.

For EVENT = 19
Questionable CVA at exam 1: Date of Exam 1 (unless date available)

For EVENT = 39
Questionable IC at exam 1: Use Exam 1 date for Original cohort and Offspring cohort. For the other cohorts, a date other than the Exam 1 date is used if available.

For EVENT = 40
Not hospitalized, diagnosed on basis of on exam or MD notes: If CHF found on FHS exam, use FHS exam date.

For EVENT = 49
Questionable CHF at exam 1: Use Exam 1 date for Original cohort and Offspring cohort. For the other cohorts, a date other than the Exam 1 date is used if available.

DATE

Variable name: DATE
Description: Date of Event
Units: Number of days since Exam 1

Code or Value	Description	Count
-8824 — 23461	Range of values	18458

LINENUM

Variable name: LINENUM
Description: Line number of page in SOE log book

Code or Value	Description	Count
1 — 25	Range of values	1529
.	Unknown	16929

Note: Used for administrative purposes. Can be used to separate multiple events per date.

PAGENUM

Variable name: PAGENUM
Description: Page number of SOE log book

Code or Value	Description	Count
3 — 175	Range of values	1529
.	Unknown	16929

Note: Used for administrative purposes. Can be used to separate multiple events per date.

REVDATE

Variable name: REVDATE
Description: Date of Review

Code or Value	Description	Count
3/2009 — 12/2013	Range of values	296
.	Unknown	18162

Note: Used for administrative purposes.

REVDATE deleted - used for administrative purposes only