

Variable Number	Variable Name	Type of variable	Variable description	Possible values with detailed definition
1	IDNO	Numeric	Unique participant identifier	
2	ClosingDate	Date	Cutoff date for mortality and morbidity events in the 2022 datasets. This date is the same for all participants	
3	S4EXAMDT	Date	Date of the S4 physical exam	
4	S5EXAMDT	Date	Date of the S5 physical exam	
5	S4ECGDT	Date	Date MI discovered by ECG prior to S4	
6	S5ECGDT	Date	Date MI discovered by ECG between S4 and S5, or midpoint between S4 and S5 if actual date unknown	
7	S4APECG	Numeric	Indicator for Rose Angina and abnormal ECG at S4	0 = No Rose Angina 1 = Rose Angina on ECG
8	S5APECG	Numeric	Indicator for Rose Angina and abnormal ECG at S5	0 = No Rose Angina 1 = Rose Angina on ECG
9	DOD	Date	Date of death discovered through chart abstraction and reported on the Mortality Decision Form	
10	DEADCODE	Character	Primary cause of death discovered through chart abstraction and reported on the Mortality Decision Form. In some cases this is the primary cause as determined by the adjudicator	01 = Definite MI 01a = Probable MI 02 = Definite sudden death from CHD 03 = Definite CHD 04 = Possible CHD 05 = Definite stroke 06 = Possible stroke 07 = Definite CHF 08 = Possible CHF 09 = Other CVD 10 = Non-CVD 21 = Malignant neoplasm 22 = Unintentional injury/MVA 23 = Unintentional injury/all other 24 = Chronic obstructive pulmonary disease 25 = Pneumonia and influenza

Variable Number	Variable Name	Type of variable	Variable description	Possible values with detailed definition
				26 = Diabetes Mellitus 27 = Chronic liver disease/cirrhosis 28 = Suicide 29 = Homicide and legal intervention 30 = Nephritis, nephrotic syndrome, nephrosis 31 = ESRD 32 = Septicemia 33 = HIV/AIDS 88 = Other 99 = Cannot be determined
11	FATALMI	Numeric	Indicator for cause of death being definite MI	0 = Death not caused by DEF MI or participant still alive 1 = Death caused by DEF MI (DEADCODE: 01)
12	FATALCHD	Numeric	Indicator for cause of death being definite or possible CHD	0 = Death not caused by CHD or participant still alive 1 = Death caused by DEF or POS CHD (DEADCODES: 01, 1a, 02, 03, 04)
13	FATALSTK	Numeric	Classification of fatal stroke type as indicated on the Mortality Decision Form	0 = Death not caused by stroke or participant still alive 1 = Death caused by Definite or possible stroke (DEADCODES: 05, 06)
14	STKTYPED	Character	Classification of fatal stroke type as indicated on the Mortality Decision Form	1 = Cardioembolic infarction 2 = Subarachnoid hemorrhage 3 = Intraparenchymal hemorrhage 4 = Lacunar infarction 5 = TIA 6 = Other, unknown infarction 7 = Unknown type of stroke 8 = Atherothrombotic infarction

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				A1 = Stroke of unknown type etiology A2 = Definite ischemic stroke A3 = Definite primary intercerebral hemorrhage A4 = Subarachnoid hemorrhage A5 = Non-fatal stroke after cardiovascular invasive intervention A6 = Non-fatal stroke post non-cardiovascular surgery B1b = Localizing neurologic deficit w/in 6 wks of onset B2a = Discharge diagnosis ICD-9 codes: 431, 432, 434, 436, 437 B2b = No evidence of disease other than cerebral infarction or hemorrhage Ba = History or rapid onset of localizing neurologic deficit
15	S6ISTKTYPED	Character	Classification of fatal ischemic stroke type (STKTYPED = A2). Only defined starting in Phase VI.	C1a = Large-artery atherosclerosis (probable) C1b = Large-artery atherosclerosis (possible) C2a = Cardioembolism (Probable) C2b = Cardioembolism (Possible) C3a = Small-artery occlusion (lacune) (Probable) C3b = Small-artery occlusion (lacune) (Possible) C4 = Acute stroke of other determined etiology C5 = Stroke of undetermined etiology
16	FATALCHF	Numeric	Indicator for cause of death being definite or possible CHF	0 = Death not caused by CHF or participant still alive 1 = Death caused by Definite or possible CHF (DEADCODES: 07, 08)

Variable Number	Variable Name	Type of variable	Variable description	Possible values with detailed definition
17	FOTHCD	Numeric	Indicator for cause of death being other CVD-related illness	0 = Death not caused by other CVD or participant still alive 1 = Death caused by Other CVD (DEADCODE: 09)
18	FATALCD	Numeric	Indicator for cause of death MI, CHD, stroke, CHF, or other CVD-related illness	0 = Death not caused by CVD or participant still alive 1 = Death caused by CVD (DEADCODES: 01, 1a, 02, 03, 04, 05, 06, 07, 08, 09)
19	S4DEFMI	Numeric	Definite MI occurring prior to S4 found through chart abstraction OR ECG	0 = No DEF MI before S4 1 = DEF MI before S4
20	S4DMIDT	Date	First date of definite MI prior to S4 found through chart abstraction	
21	S4DMIECG	Numeric	Indicator that a definite MI was found on the S4 ECG	0 = No DEF MI on ECG 1 = Definite MI on ECG
22	S4DMI_C	Numeric	Definite MI occurring prior to S4 found through chart abstraction	1 = Definite MI before S4 by chart
23	S5DEFMI	Numeric	Definite MI occurring prior to S5 found through chart abstraction OR ECG	0 = No DEF MI before S5 1 = DEF MI before S5
24	S5DMIECG	Numeric	Indicator that a definite MI was found on the S5 ECG	0 = No DEF MI before S4 1 = DEF MI before S4
25	DEFMI_C	Numeric	Indicator for definite MI occurring after S4, found through chart abstraction. Includes probable MI with positive ECG plus cardiac symptoms without biomarkers. Not an incidence indicator as can be '1' even if definite MI occurred before S4.	1 = Definite MI after enrollment by chart
26	DEFMIDT	Date	Date of first definite MI occurring after S4 as found through chart abstraction	
27	NWDEFMI	Numeric	Incidence indicator for definite MI occurring after S4 among those with no definite MI occurring before S4	0 = No incident DEF MI 1 = Incident DEF MI
28	NDMI_DT	Date	Date of first incident definite MI occurring after S4 among those with no definite MI occurring before S4. Missing if no incident definite MI.	
29	S4MIFREE	Numeric	Indicator for being definite MI-free prior to S4	0 = Not free of event 1 = Free of event
30	ANYMIS4	Numeric	Indicator for fatal or non-fatal definite MI occurring between S4 and the closing date, among those with no definite MI prior to S4	0 = No incident or fatal DEF MI after S4 1 = Incident or fatal DEF MI after S4

Variable Number	Variable Name	Type of variable	Variable description	Possible values with detailed definition
31	ANYMIDTS4	Date	First date of fatal or non-fatal definite MI between S4 and closing date	
32	S5MIFREE	Numeric	Indicator for being definite MI-free prior to S5	0 = Not free of event 1 = Free of event
33	ANYMIS5	Numeric	Indicator for fatal or non-fatal definite MI occurring between S5 and the closing date, among those with no definite MI prior to S5	0 = No incident or fatal DEF MI after S5 1 = Incident or fatal DEF MI after S5
34	ANYMIDTS5	Date	First date of fatal or non-fatal definite MI between S5 and closing date	
35	S4PRBMI_C	Numeric	Indicator for probable MI occurring prior to S4 found through chart abstraction	1 = Prob MI before S4 by chart
36	S4PRBMI	Numeric	Indicator for probable MI occurring prior to S4 found through chart abstraction	0 = No Prob MI before S4 1 = Prob MI before S4
37	S4PRBMIDT	Date	First date of probable MI prior to S4 found through chart abstraction	
38	S5PRBMI	Numeric	Indicator for probable MI occurring prior to S5 found through chart abstraction	0 = No Prob MI before S4 1 = Prob MI before S4
39	PRBMI_C	Numeric	Indicator for probable MI occurring after S4 found through chart abstraction. Not an incidence indicator as can be '1' even if probable MI occurred prior to S4.	1 = Prob MI after enrollment by chart
40	PRBMIDT	Date	Date of first probable MI occurring after S4 as found through chart abstraction	
41	NWPRBMI	Numeric	Incidence indicator for probable MI occurring after S4 among those with no probable MI occurring before S4	0 = No incident PROB MI 1 = Incident PROB MI
42	NPRBMI_DT	Date	Date of first incident probable MI occurring after S4 among those with no probable MI occurring before S4. Missing if no incident probable MI.	
43	S4PMIDT	Date	Date of first possible MI occurring prior to S4 as found through chart abstraction	
44	S4PMIECG	Numeric	Indicator that a possible MI was found on the S4 ECG	0 = No POS MI on ECG 1 = Possible MI on ECG
45	S4PMI_C	Numeric	Indicator for possible MI occurring prior to S4 found through chart abstraction	1 = Possible MI before S4 by chart
46	S4POSMI	Numeric	Indicator for possible MI occurring prior to S4 found through chart abstraction or ECG	0 = No POS MI before S4 1 = POS MI before S4
47	S5POSMI	Numeric	Indicator for possible MI occurring prior to S5 found through chart abstraction or ECG. Includes possible MI occurring prior to S4.	0 = No POS MI before S5

Variable Number	Variable Name	Type of variable	Variable description	Possible values with detailed definition
				1 = POS MI before S5
48	S5PMIECG	Numeric	Indicator that a possible MI was found on the S5 ECG	0 = No POS MI on ECG 1 = Possible MI on ECG
49	POSMI_C	Numeric	Indicator for possible MI occurring after S4 found through chart abstraction. Not an incidence indicator as can be '1' even if probable MI occurred prior to S4.	1 = Possible MI after enrollment by chart
50	POSMIDT	Date	Date of first possible MI occurring after S4 as found through chart abstraction	
51	NWPOSMI	Numeric	Incidence indicator for possible MI occurring after S4 among those with no possible MI occurring before S4	0 = No incident POS MI 1 = Incident POS MI
52	NPMI_DT	Date	Incidence date of first possible MI occurring after S4 among those with no possible MI occurring before S4. Missing if no incident possible MI.	
53	S4DCHDDT	Date	Date of first definite CHD or definite MI occurring prior to S4 as found through chart abstraction. Date is the earliest of the 2 events.	
54	S4DCHD_C	Numeric	Indicator for definite CHD or definite MI occurring prior to S4 as found through chart abstraction	1 = Definite CHD before S4 by chart
55	S4DEFCHD	Numeric	Indicator for definite CHD or definite MI occurring prior to S4 as found through chart abstraction or Rose Angina on ECG	0 = No DEF CHD before S4 1 = DEF CHD before S4
56	S5DEFCHD	Numeric	Indicator for definite CHD or definite MI occurring prior to S5 as found through chart abstraction or Rose Angina on ECG. Includes events prior to S4.	0 = No DEF CHD before S5 1 = DEF CHD before S5
57	DEFCHD_C	Numeric	Indicator for definite CHD or definite MI occurring after S4 as found through chart abstraction. Not an incidence indicator as can be '1' for participants with these diagnoses also occurring prior to S4.	1 = Definite CHD after enrollment by chart
58	DEFCHDDT	Date	Date of first definite CHD or definite MI occurring after S4 as found through chart abstraction. Date is the earliest of the 2 events if both occur.	
59	NWDEFCHD	Numeric	Incidence indicator for definite CHD or definite MI occurring after S4 among those with no such events occurring before S4	0 = No incident DEF CHD 1 = Incident DEF CHD
60	NDCHD_DT	Date	Incidence date of first definite CHD or definite MI occurring after S4 among those with no such events occurring prior to S4. Date is the earliest of the 2 events if both occurred.	
61	S4CHDFREE	Numeric	Indicator for being free of definite CHD or definite MI prior to S4	0 = Not free of event 1 = Free of event
62	ANYCHDS4	Numeric	Indicator for fatal or non-fatal definite CHD or definite MI occurring between S4 and the closing date, among those with no such events prior to S4	0 = No incident or fatal DEF CHD after S4 1 = Incident or fatal DEF CHD after S4

Variable Number	Variable Name	Type of variable	Variable description	Possible values with detailed definition
63	ANYCHDDTS4	Date	First date of fatal or non-fatal definite CHD or definite MI between S4 and closing date.	
64	S5CHDFREE	Numeric	Indicator for being free of definite CHD or definite MI prior to S5	0 = Not free of event 1 = Free of event
65	ANYCHDS5	Numeric	Indicator for fatal or non-fatal definite CHD or definite MI occurring between S5 and the closing date, among those with no such events prior to S5	0 = No incident or fatal DEF CHD after S5 1 = Incident or fatal DEF CHD after S5
66	ANYCHDDTS5	Date	First date of fatal or non-fatal definite CHD or definite MI between S5 and closing date.	
67	S4PCHDDT	Date	Indicator for possible CHD occurring prior to S4 as determined by angina on ECG or medical history	
68	S4PCHDEX	Numeric	Date of first possible CHD occurring prior to S4 as found through chart review	
69	S4PCHD_C	Numeric	Indicator for possible CHD occurring prior to S4 as found through chart review	1 = Possible CHD before S4 by chart
70	S4POSCHD	Numeric	Indicator for possible CHD or possible MI occurring prior to S4 as found through chart abstraction or ECG	0 = No POS CHD before S4 1 = POS CHD before S4
71	S5PCHDEX	Numeric	Indicator for possible CHD occurring prior to S5 as determined by angina on ECG or medical history	
72	S5POSCHD	Numeric	Indicator for possible CHD or possible MI occurring prior to S5 as found through chart abstraction or ECG	0 = No POS CHD before S5 1 = POS CHD before S5
73	POSCHD_C	Numeric	Indicator for possible CHD or possible MI occurring after S4 as found through chart review. Not an incidence indicator as can be '1' for those with such events occurring prior to S4.	1 = Possible CHD after enrollment by chart
74	POSCHDDT	Date	Date first possible CHD or possible CHD occurring after S4 as found through chart review.	
75	NWPOSCHD	Numeric	Incidence indicator for possible CHD or possible MI occurring after S4 among those with no such events occurring prior to S4	0 = No incident POS CHD 1 = Incident POS CHD
76	NPCHD_DT	Date	Incidence date of first possible CHD or possible MI. The earliest date of diagnosis should both occur.	
77	S4DEFSTK	Numeric	Date of definite stroke occurring prior to S4 as found through chart abstraction	1 = Definite stroke before S4 by chart
78	S4DSTKDT	Date	Indicator for definite stroke occurring prior to S4 as found through chart abstraction	
79	S4DSTK_C	Numeric	Indicator for definite stroke occurring prior to S4 as found through chart abstraction	1 = Definite stroke before S4 by chart
80	S5DEFSTK	Numeric	Indicator for definite stroke occurring prior to S5 as found through chart abstraction. Includes definite stroke events occurring prior to S4	0 = No definite stroke before S5 1 = Definite stroke before S5
81	DEFSTK_C	Numeric	Indicator for definite stroke occurring after S4 as found though chart review. Not in incidence indicator as can be '1' for those with definite stroke prior to S4.	1 = Definite stroke after enrollment by chart

Variable Number	Variable Name	Type of variable	Variable description	Possible values with detailed definition
82	DEFSTKDT	Date	First date of definite stroke occurring after S4 as found through chart review. Not an incidence date.	
83	NWDEFSTK	Numeric	Incidence indicator for definite stroke occurring after S4 among those with no definite stroke events occurring prior to S4	0 = No incident DEF stroke 1 = Incident DEF stroke
84	NDSTK_DT	Numeric	Incidence date of definite stroke occurring after S4 among those with no definite stroke events occurring prior to S4.	
85	S4DSTKFREE	Numeric	Indicator for being free of definite stroke event prior to S4	0 = Not free of event 1 = Free of event
86	ANYDSTKS4	Numeric	Indicator for fatal or non-fatal definite stroke occurring after S4 among those with no definite stroke event occurring prior to S4	0 = No incident or fatal DEF stroke after S4 1 = Incident or fatal DEF stroke after S4
87	ANYDSTKDTs4	Date	Date of first fatal or non-fatal definite stroke occurring after S4 among those with no definite stroke prior to S4.	
88	ANYDSTKTYs4	Character	Type of fatal or non-fatal definite stroke event occurring after S4	
89	S5DSTKFREE	Numeric	Indicator for being free of definite stroke event prior to S5. Includes being event-free at S4.	
90	ANYDSTKS5	Numeric	Indicator for fatal or non-fatal definite stroke occurring after S5 among those with no definite stroke event occurring prior to S5	0 = No incident or fatal DEF stroke after S5 1 = Incident or fatal DEF stroke after S5
91	ANYDSTKDTs5	Date	Date of first fatal or non-fatal definite stroke occurring after S5 among those with no definite stroke prior to S5.	
92	ANYDSTKTYs5	Character	Type of fatal or non-fatal definite stroke event occurring after S5	0 = No incident or fatal DEF stroke after S5 1 = Incident or fatal DEF stroke after S5
93	STKTYPEL	Character	Type of incident definite stroke occurring after S4 as reported on the Morbidity Decision Form	1 = Cardioembolic infarction 2 = Subarachnoid hemorrhage 3 = Intraparenchymal hemorrhage 4 = Lacunar infarction 5 = TIA 6 = Other, unknown infarction 7 = Unknown type of stroke 8 = Atherothrombotic infarction A1 = Stroke of unknown type etiology A2 = Definite ischemic stroke

Variable Number	Variable Name	Type of variable	Variable description	Possible values with detailed definition
				A3 = Definite primary intercerebral hemorrhage A4 = Subarachnoid hemorrhage A5 = Non-fatal stroke after cardiovascular invasive intervention A6 = Non-fatal stroke post non-cardiovascular surgery B1b = Localizing neurologic deficit w/in 6 wks of onset B2a = Discharge diagnosis ICD-9 codes: 431, 432, 434, 436, 437 B2b = No evidence of disease other than cerebral infarction or hemorrhage Ba = History or rapid onset of localizing neurologic deficit
94	S6ISTKTPEL	Character	Type of incident definite ischemic stroke occurring after S4. Only defined for events found in Phase VI or later	C1a = Large-artery atherosclerosis (probable) C1b = Large-artery atherosclerosis (possible) C2a = Cardioembolism (Probable) C2b = Cardioembolism (Possible) C3a = Small-artery occlusion (lacune) (Probable) C3b = Small-artery occlusion (lacune) (Possible) C4 = Acute stroke of other determined etiology C5 = Stroke of undetermined etiology
95	S4POSSTK	Numeric	Date of first possible stroke occurring prior to S4 as found through chart abstraction	0 = No possible stroke before S4 1 = Possible stroke before S4
96	S4PSTKDT	Date	Indicator for possible stroke occurring prior to S4 as found through chart review	
97	S4PSTK_C	Numeric	Indicator for possible stroke occurring prior to S4 as found through chart review among those with no definite stroke occurring prior to S4	1 = Possible stroke before S1 by chart

Variable Number	Variable Name	Type of variable	Variable description	Possible values with detailed definition
98	S5POSSTK	Numeric	Indicator for possible stroke occurring prior to S5 as found through chart review among those with no definite stroke occurring prior to S5	0 = No possible stroke before S5 1 = Possible stroke before S5
99	POSSTK_C	Numeric	Indicator for possible stroke occurring after S4. Not an incidence indicator as can be '1' for those with possible stroke occurring prior to S4.	1 = Possible stroke after enrollment by chart
100	POSSTKDT	Date	Date of first possible stroke occurring after S4 as found through chart review. Not an incidence date.	
101	NWPOSSTK	Numeric	Incidence indicator for possible stroke occurring after S4 among those with no possible stroke occurring prior to S4 and no incident definite stroke events occurring prior to the first incidence of possible stroke.	0 = No incident POS stroke 1 = Incident POS stroke
102	NPSTK_DT	Date	First date of incident possible stroke occurring after S4	
103	S4CHF	Numeric	CHF event on chart review occurring prior to S4	0 = No CHF before S4 1 = CHF before S4
104	S4CHFDT	Date	Date of first CHF occurring prior to S4	
105	S4CHFHDT	Date	Date of first CHF event occurring prior to S4	
106	S4CHF_C	Numeric	Indicator for CHF occurring prior to S4 as found through chart abstraction	1 = CHF after enrollment by chart
107	S4OTHCVD_C	Numeric	Indicator for other CVD event occurring prior to S4 as found through chart abstraction	1 = Other CVD before S4 by chart
108	S4CHFHX	Numeric	CHF event self-reported in MED HX occurring prior to S4	1 = Self-reported history of CHF 2 = No self-reported history of CHF 9 = Unknown
109	S5CHF	Numeric	CHF event on chart review occurring prior to S5	0 = No CHF before S5 1 = CHF before S5
110	S5CHFHX	Numeric	CHF event self-reported in MED HX occurring prior to S5	1 = Self-reported history of CHF 2 = No self-reported history of CHF 9 = Unknown
111	CHF_C	Numeric	Indicator for CHF occurring after S4 as found through chart review	1 = CHF after enrollment by chart

Variable Number	Variable Name	Type of variable	Variable description	Possible values with detailed definition
112	CHFDT	Date	First date of CHF occurring after S4 as found through chart review among those with no previous CHF	
113	NWCHF	Numeric	Incidence indicator for CHF occurring prior to S4 with no previous CHF	0 = No incident CHF 1 = Incident CHF
114	NCHF_DT	Date	Incidence date of CHF occurring after S4 among those with no CHF event occurring prior to S4.	
115	S4CHFFREE	Numeric	Indicator for being free of CHF prior to S4	0 = Not free of event 1 = Free of event
116	ANYCHFS4	Numeric	Indicator for fatal or non-fatal CHF occurring between S4 and closing date among those with no CHF events prior to S4	0 = No incident or fatal DEF CHF after S4 1 = Incident or fatal DEF CHF after S4
117	ANYCHFDTS4	Date	First date of fatal or non-fatal CHF between S4 and closing date.	
118	S5CHFFREE	Numeric	Indicator for being free of CHF prior to S5	0 = Not free of event 1 = Free of event
119	ANYCHFS5	Numeric	Indicator for fatal or non-fatal CHF occurring between S5 and closing date among those with no CHF events prior to S5	0 = No incident or fatal DEF CHF after S5 1 = Incident or fatal DEF CHF after S5
120	ANYCHFDTS5	Date	First date of fatal or non-fatal CHF between S5 and closing date.	
121	S4TIA_C	Numeric	Indicator for TIA occurring prior to S4 as found through chart review	1 = TIA before S4 by chart
122	S4TIADT	Date	Date of first TIA occurring prior to S4 as found through chart review	
123	TIA_C	Numeric	Indicator for TIA occurring after S4 as found through chart review	1 = TIA after enrollment by chart
124	TIADT	Date	Date of first TIA occurring after S4 as found through chart review	
125	S4OTHCVDDT	Date	Date of first other CVD event except CHF event occurring S4 and the closing date, as found through chart abstraction	
126	OTHCVDD_C	Numeric	Indicator of other CVD event except CHF event occurring after S4 as found through chart abstraction	1 = Other CVD after enrollment by chart
127	OTHCVDDT	Date	Date of first other CVD event except CHF event occurring after S4 as found through chart abstraction	
128	S4CVDFREE	Numeric	Indicator for being free of CHD, definite stroke, or CHF prior to S4	0 = Not free of event 1 = Free of event
129	ANYCVDS4	Numeric	Indicator for fatal or non-fatal definite or probable MI, CHD, CHF, definite stroke, or other CVD occurring between S4 and the closing date, among those with no such events occurring prior to S4	0 = No incident or fatal DEF CVD after S4

Variable Number	Variable Name	Type of variable	Variable description	Possible values with detailed definition
				1 = Incident or fatal DEF CVD after S4
130	ANYCVDDTS4	Date	Date of first fatal or non-fatal definite or probable MI, CHD, CHF, definite stroke, or other CVD event occurring between S4 and the closing date.	
131	S5CVDFREE	Numeric	Indicator for being free of CHD, definite stroke, or CHF prior to S5	0 = Not free of event 1 = Free of event
132	ANYCVDS5	Numeric	Indicator for fatal or non-fatal definite or probable MI, CHD, CHF, definite stroke, or other CVD occurring between S5 and the closing date, among those with no such events occurring prior to S5	0 = No incident or fatal DEF CVD after S5 1 = Incident or fatal DEF CVD after S5
133	ANYCVDDTS5	Date	Date of first fatal or non-fatal definite or probable MI, CHD, CHF, definite stroke, or other CVD event occurring between S5 and the closing date	