FRAMINGHAM HEART STUDY CODING MANUAL

Atrial Fibrillation/Flutter Cases Reviewed Through 2013

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

TIME INTERVAL: Cases reviewed 1/1949 - 12/2010

DATASET NAME: vr afcum 2013 a 0026d

OBSERVATIONS: 17276

Variables that define a unique record: PID, ECGDATE, ECG ORDER.

It is possible for an individual to have more than one case on a particular day. If there is more than one case on a particular day, the variables IDTYPE, ID, ECGDATE, ECG_ORDER (order of ECGs within a day), RHYTHM can be used to distinguish between cases.

Data was generated by examining ECGs from FHS exams as well as hospital and other medical records obtained on FHS participants. Normal sinus rhythm cases are included in this dataset. See protocol for rules regarding case review.

All cases were reviewed by a cardiologist or MD.

This dataset replaces vr_afcum_2012_m_0772.

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.

FHS Coding Manual for vr_afcum_2013_a_0026d Revised: 10/13/2014 10:01:52 AM

IDTYPE

Variable name: IDTYPE

Description: Framingham Heart Study Cohort Identifier

Code or Value	Description	Count
0	Original Cohort	8184
1	Offspring Cohort	8123
2	New Offspring Spouse Cohort	115
3	Generation 3 Cohort	490
7	Omni 1 Cohort	310
72	Omni 2 Cohort	54

ID

Variable name: ID

Description: Framingham Heart Study Participant identifier within a cohort

Note: IDTYPE and ID taken together form the Framingham Heart Study participant identification number.

ID deleted - use random ID (PID)

P**ID**

Variable name: PID

Description: Random ID

ECGDATE

Variable name: ECGDATE

Description: Date of ECG

Units: Number of days since Exam 1

Code or Value	Description	Count	
-8271 — 23590	Range of values	17276	ı

RHYTHM

Variable name: RHYTHM

Description: Type of rhythm

Code or Value	Description	Count
0	Normal sinus rhythm	5970
1	Atrial fibrillation	9242
2	Atrial flutter	857
3	Atrial fibrillation / atrial flutter	354
7	Other	746
	Unknown	107

RHYTHSPE

Variable name: RHYTHSPE

Description: Rhythm specification

Code or Value	Description	Count
Blank	N/A or Field not filled in	16515
Not blank	Filled in	761

Note: This text field is filled in when RHYTHM=7.

RHYTHSPE deleted - to preserve confidentiality

ECGLOC

Variable name: ECGLOC

Description: ECG location

Code or Value	Description	Count
1	Hospital/ER	9415
2	Outside MD	3551
3	FHS Exam ECG	2840
4	Outside Holter	345
5	FHS Holter	45
6	By history, ECG report only	964
7	Pacemaker/AICD interrogation	116

ATHROMRX

Variable name: ATHROMRX

Description: Discharge antithrombotics

Code or Value	Description	Count
0	None	5116
1	Warfarin	4554
2	Aspirin	3414
3	Warfarin and aspirin	1731
4	Other comb	674
5	Clopidogrel	60
6	Dabigatran	81
7	LMWH	11
8	Rivaroxaban	8
	Unknown	1627

Note: Dabigatran and LMWH were added to the data collection form in 2011. Rivaroxaban was added to the data collection form in 2012.

ATHRSPEC

Variable name: ATHRSPEC

Description: Antithrombotics specification

Code or ValueDescriptionCountBlankN/A or Field not filled in16576Not blankFilled in700

Note: This text field is filled in when ATHROMRX=4. Some antithrombotic Rx which are coded in ARTHRMRX may be found in this text field due to data collection form changes over time.

AARRHYTH

Variable name: AARRHYTH

Description: Discharge antiarrhythmics yes/no

Code or Value	Description	Count
0	None	12761
1	Yes	2935
	Unknown	1580

AARRHRX

Variable name: AARRHRX

Description: Discharge antiarrhythmics, if AARRHYTH=1

Code or Value	Description	Count
1	Quinidine	544
2	Procainamide	340
3	Disopyramide	174
4	Tocainide	5
5	Flecainide	246
6	Mexiletine	13
7	Amiodarone	820
8	Encainide	1
9	Propafenone	71
11	Sotalol	484
12	Other or Comb.	122
13	Dofetilide	54
14	Dronedarone	27
88	No discharge antiarrhythmics (AARRHYTH = 0)	12761
	Unknown	1614

Note: Tocainide, Mexiletine, Encainide and Moricizine were dropped from the data collection form in 2011. These medications are no longer coded. Dronedarone was added in 2011.

AAOTHSPE

Variable name: AAOTHSPE

Description: Antiarrhythmics combination specification

Code or Value	Description	Count
Blank	N/A or Field not filled in	17151
Not blank	Filled in	125

Note: This text field is filled in when AARRHRX=12. Some coded antiarrhythmics may be found in this text field due to data collection form changes over time.

CARVER

Variable name: CARVER

Description: Cardioversion attempted

Code or Value	Description	Count
0	No	13672
1	Spontaneous	974
2	Chemical	430
3	Electrical	397
4	Chemical and electrical	116
	Unknown	1687

CARVERRX

Variable name: CARVERRX

Description: Cardioversion medications, if CARVER=2 or 4

Code or Value	Description	Count
1	Quinidine	132
2	Procainamide	159
3	Disopyramide	10
4	Tocainide	0
5	Flecainide	17
6	Mexiletine	3
7	Amiodarone	93
8	Encainide	0
9	Propafenone	12
11	Sotalol	38
12	Other or Comb.	26
13	Dofetilide	4
14	Dronedarone	2
88	No cardioversion attempted	13672
	Unknown	3108

Note: Tocainide, Mexiletine, Encainide and Moricizine were dropped from the data collection sheet in 2011. They are no longer coded. Dronedarone was added in 2011.

CAROTHSPE

Variable name: CAROTHSPE

Description: Cardioversion specification

Code or Value	Description	Count
Blank	N/A or Field not filled in	17247
Not blank	Filled in	29

Note: This text field is filled in when CARVERRX=12.

CARVDATE

Variable name: CARVDATE

Description: Cardioversion date

Units: Number of days since Exam 1

Code or Value	Description	Count
-7673 — 23132	Range of values	1743
	Unknown or no cardioversion attempted	15533

CARV_SUC

Variable name: CARV_SUC

Description: Cardioversion successful? Yes/no

Code or Value	Description	Count
0	No	99
1	Yes	797
88	No cardioversion attempted	13672
	Unknown	2708

Note: Variable CARV_SUC was added in 2010.

A value of "unknown" has been assigned to cases that were reviewed before CARV_SUC was added to the review form. To get a complete count of cardioversion attempted yes/no, see CARVER.

PHYS_1

Variable name: PHYS 1

Description: Reviewer - First physician ID

Note: Available upon request.

PHYS_1 deleted - used for administrative purposes only

PHYS_2

Variable name: PHYS_2

Description: Reviewer - Second physician ID

Note: Available upon request.

PHYS_2 deleted - used for administrative purposes only

PHYS_3

Variable name: PHYS_3

Description: Reviewer - Third physician ID

Note: Available upon request.

PHYS 3 deleted - used for administrative purposes only

PHYS_4

Variable name: PHYS_4

Description: Reviewer - Fourth physician ID

Note: Available upon request.

PHYS 4 deleted - used for administrative purposes only

STAFF_1

Variable name: STAFF_1

Description: Review staff ID

Note: Available upon request.

STAFF_1 deleted - used for administrative purposes only

ECG_HR

Variable name: ECG_HR

Description: Hour of ECG (time of day)

Code or Value	Description	Count
0 — 24	Range of values	1659
	Unknown or not applicable	15617

Note: Variable ECG_HR was added in 2009 in military time. Use in conjunction with ECG_MIN.

ECG MIN

Variable name: ECG_MIN

Description: Minute of ECG (time of day)

Code or Value	Description	Count
0 — 59	Range of values	1659
	Unknown or not applicable	15617

Note: Variable ECG_MIN was added in 2009 in military time. Use in conjunction with ECG_HR.

ECG_ORDER

Variable name: ECG_ORDER

Description: Order of ECG if more than one ECG per day per participant

Code or Value	Description	Count
	one case within a day	16149
1	1st case within a day	545
2	2nd case within a day	543
3	3rd case within a day	29
4	4th case within a day	4
5	5th case within a day	1
90	ECG order for admin purpose	4
91	ECG order for admin purpose	1

Note: ECG_ORDER was added in 2009. It was added to differentiate ECGs when there is more than one ECG per day per participant. The values of the ECG_ORDER variable may not always reflect the order of ECGs within the date. To determine order within a day, see ECG_MIN and ECG_HR if available.

When the case order was unknown within a day (for example RHYTHM = by history only) then an arbitrary value of 90, 91, 92, ... etc. was assigned to the variable ECG_ORDER. Note that on a particular day it is possible to have both known and unknown cases.

PAGENUM

Variable name: PAGENUM

Description: Page number of data collection sheet

Code or Value	Description	Count
1 — 8623	Range of values	17276

Note: Used for bookkeeping purpose, administrative only

REVDATE

Variable name: REVDATE

Description: Review date of ECG

Code or Value	Description	Count
09/1985 — 12/2013	Range of values	16688
	Unknown	588

Note: REVDATE deleted - used for administrative purposes only

VERSION

Variable name: VERSION

Description: Version date of data collection sheet

Code or Value	Description	Count	
1/2011 — 5/2012	Range of values	2308	
	Unknown or not applicable	14968	

Note: Prior to 01/2011 data collection sheets did not have version date.

VERSION deleted - used for administrative purposes only