

DATASET LOCATIONS AND FILENAME

DOPM server:

N:\Research\data_analytics\REGARDS\Analysis
data\Outcomes\Events Analytic\Thru2015

Filename:

events_analytic_20180327.sas7bdat

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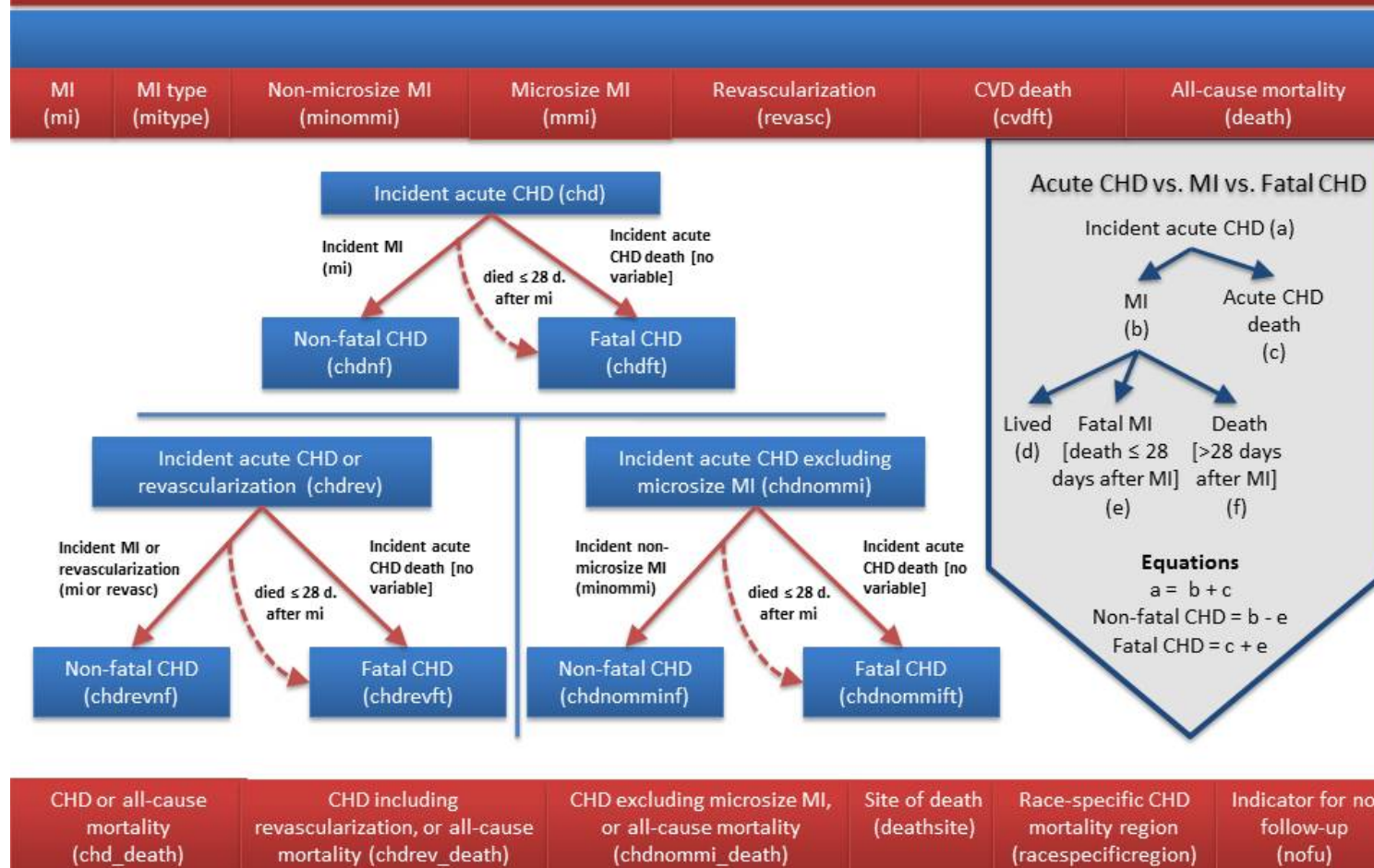
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VARIABLE DIAGRAM

REGARDS-MI Events Analytic dataset

Constructed Variables Diagram - 1 variable per box

Key: Common name (variable name in parentheses) [explanatory statement, if applicable]



ID_NUM	Source Dataset	
	n/a	
Source information	SAS Dataset	
	Events Analytic	
n/a	SAS Label	
Code or Value	Description	Frequency
<unique identifier>	Frequency	30183

mi15	Source Dataset	
	Gold MI, CalcVars	
Source information	SAS Dataset	
	Events Analytic	
	SAS Label	
MI Heart Adjudication Form: Q10.1='Definite' or 'Probable' MI	First definite/probable MI on/before 12/31/2015	
Code or Value	Description	Frequency
1	Had event	1759
0	Did not have event	27971
.	Missing	453

mi15dt	Source Dataset	
	Gold MI, CalcVars	
Source information	SAS Dataset	
	Events Analytic	
	SAS Label	
Admission Date of mi15 event (from MI Heart Adjudication Form), or earliest of Q3=date of death (MI Death Adjudication Form), last_fudate (CalcVars), or 12/31/2015 (end of follow-up)	Date of mi15 event or censor date	
Code or Value	Description	Frequency
2003APR13-2015DEC31	Range of values	29730
.	Missing	453

mi15type	Source Dataset	
	Gold MI, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
First definite/probable MI was classified as 1/Regular if met minommi15 definition, 2/Microsize if met mmi15 definition. Sample sizes differ based on order of selection.	Indicator for mi15: 0=No def/prob MI 1=Regular MI 2=Microsize MI	
Code or Value	Description	Frequency
0	No definite/probable MI	27971
1	Regular MI	1180
2	Microsize MI	579
.	Missing	453

minommi15	Source Dataset	
	Gold MI, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
MI Heart Adjudication Form: Q10.1='Definite' or 'Probable' MI and Q6.2, highest troponin $\geq 0.5 \mu\text{g/L}$	First definite/probable, non-microsize MI on/before 12/31/2015	
Code or Value	Description	Frequency
1	Had event	1246
0	Did not have event	28484
.	Missing	453

minommi15dt	Source Dataset	
	Gold MI, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
Admission Date of minommi15 event (from MI Heart Adjudication Form), or earliest of Q3=date of death (MI Death Adjudication Form), last_fudate (CalcVars), or 12/31/2015 (end of follow-up)	Date of minommi15 event or censor date	
Code or Value	Description	Frequency
2003APR13-2015DEC31	Range of values	29730
.	Missing	453

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mmi15	Source Dataset	
	Gold MI, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
MI Heart Adjudication Form: Q10.1='Definite' or 'Probable' MI and Q6.2, highest troponin < 0.5 µg/L	First definite/probable, microsize MI on/before 12/31/2015	
Code or Value	Description	Frequency
1	Had event	650
0	Did not have event	29080
.	Missing	453

mmi15dt	Source Dataset	
	Gold MI, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
Admission Date of revasc15 event (from MI Heart Adjudication Form), or earliest of Q3=date of death (MI Death Adjudication Form), last_fudate (CalcVars), or 12/31/2015 (end of follow-up)	Date of mmi15 event or censor date	
Code or Value	Description	Frequency
2003APR15-2015DEC31	Range of values	29730
.	Missing	453

revasc15	Source Dataset	
	Gold MI, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
MI Heart Adjudication Form: Q16.1='Percutaneous coronary intervention this admission' or Q16.2='CABG this admission'	First revascularization on/before 12/31/2015	
Code or Value	Description	Frequency
1	Had event	1858
0	Did not have event	27872

.	Missing	453

revasc15dt	Source Dataset	
	Gold MI, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
Admission Date of revasc15 event (from MI Heart Adjudication Form), or earliest of Q3=date of death (MI Death Adjudication Form), last_fudate (CalcVars), or 12/31/2015 (end of follow-up)	Date of revasc15 event or censor date	
Code or Value	Description	Frequency
2003APR13-2015DEC31	Range of values	29730
.	Missing	453

cvdft15	Source Dataset	
	Gold Death, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
MI Death Adjudication Form: Q5.1='Definite, probable, possible MI', Q5.2='Stroke', Q5='Sudden death', Q5.4='CHF', 5.6.1a='Other cardiac', 5.6.1b='Not cardiac but other cardiovascular'	Cardiovascular death from definite, probable, or possible MI, stroke, sudden death, heart failure, other cardiac cause, or not cardiac but other cardiovascular cause on/before 12/31/2015	
Code or Value	Description	Frequency
1	Had event	2223
0	Did not have event	27507
.	Missing	453

cvdft15dt	Source Dataset	
	Gold Death, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
Q3=date of death (from MI Death Adjudication Form) or earlier of last_fudate (CalcVars) and 12/31/2015 (end of follow-up)	Date of cvdft15 event or censor date	
Code or Value	Description	Frequency
2003APR13-2015DEC31	Range of values	29730
.	Missing	453

death15	Source Dataset	
	CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
Death_indicator=1 (from CalcVars)	Death from any cause on/before 12/31/2015	
Code or Value	Description	Frequency
1	Had event	7157
0	Did not have event	22573
.	Missing	453

death15dt	Source Dataset	
	CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
Earlier of last_fudate (from CalcVars) and 12/31/2015 (end of follow-up)	Date of death15 event or censor date	
Code or Value	Description	Frequency
2003APR13-2015DEC31	Range of values	29730
.	Missing	453

chd15	Source Dataset	
	Gold MI, Gold Death, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
Overall CHD variable that counts the earlier of an mi15 event or acute CHD death (from MI Death Adjudication Form: Q5=5.3, Q6.1=6.1A, 6.1B, or Q6.2.1=6.2.1A, 6.2.1B); event date is chd15dt	Total CHD: first event of first definite/probable MI (mi15 event) or acute CHD death on/before 12/31/2015	
Code or Value	Description	Frequency
1	Had event	2423
0	Did not have event	27307
.	Missing	453

chdnf15	Source Dataset	
	Gold MI, Gold Death, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
Separated the chd15 events into nonfatal and fatal CHD (mutually exclusive), where any death within 28 days of mi15 was categorized as chdft15; event date is chd15dt	First nonfatal, definite/probable MI on/before 12/31/2015	
Code or Value	Description	Frequency
1	Had event	1498
0	Did not have event	28232
.	Missing	453

chdft15	Source Dataset	
	Gold MI, Gold Death, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
Acute CHD death (from MI Death Adjudication Form: Q5=5.3, Q6.1=6.1A, 6.1B, or Q6.2.1=6.2.1A, 6.2.1B) and fatal definite/probable MI (mi15 event with any cause of death within 28 days) and no prior adjudicated nonfatal mi15 event; event date is chd15dt	Acute CHD death or fatal, definite/probable MI on/before 12/31/2015	
Code or Value	Description	Frequency
1	Had event	925
0	Did not have event	28805
.	Missing	453

chd_death15	Source Dataset	
	Gold MI, Gold Death, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
chd15=1 or death15=1; event date is chd15dt	Total CHD (chd15) or death from any cause (death15) on/before 12/31/2015	
Code or Value	Description	Frequency
1	Had event	8031
0	Did not have event	21699
.	Missing	453

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chd15dt	Source Dataset	
	Gold MI, Gold Death, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
CHD date variable that counts the earlier date of an mi15 event and acute CHD death	Date of chd15, chdnf15, chdft15, and chd_death15 events or censor date	
Code or Value	Description	Frequency
2003APR13-2015DEC31	Range of values	29730
.	Missing	453

chdrev15	Source Dataset	
	Gold MI, Gold Death, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
Overall CHD variable that counts the earlier of an mi15 event, revasc15 event, or acute CHD death (from MI Death Adjudication Form: Q5=5.3, Q6.1=6.1A, 6.1B, or Q6.2.1=6.2.1A, 6.2.1B); event date is chdrev15dt	Total CHD including revascularization: first event of definite/probable MI (mi15 event) OR revascularization (revasc15 event) OR acute CHD death on/before 12/31/2015	
Code or Value	Description	Frequency
1	Had event	3345
0	Did not have event	26385
.	Missing	453

chdrevnf15	Source Dataset	
	Gold MI, Gold Death, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
Separated the chdrev15 events into nonfatal and fatal CHD (mutually exclusive), where mi15 or revasc15 with any cause of death within 28 days was categorized as chdrevft15; event date is chdrev15dt	First nonfatal, definite/probable MI or revascularization on/before 12/31/2015	
Code or Value	Description	Frequency

1	Had event	2480
0	Did not have event	27250
.	Missing	453

chdrevft15	Source Dataset	
	Gold MI, Gold Death, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
Acute CHD death (from MI Death Adjudication Form: Q5=5.3, Q6.1=6.1A, 6.1B, or Q6.2.1=6.2.1A, 6.2.1B) and fatal definite/probable MI (mi15 event with any cause of death within 28 days) and no prior adjudicated nonfatal mi15 or revasc15 event; event date is	(Acute CHD death or fatal, definite/probable MI) and no prior adjudicated revascularization on/before 12/31/2015	
Code or Value	Description	Frequency
1	Had event	865
0	Did not have event	28865
.	Missing	453

chdrev_death15	Source Dataset	
	Gold MI, Gold Death, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
chdrev15=1 or death15=1; event date is chdrev15dt	Total CHD including revascularization (chdrev15) or death from any cause (death15) on/before 12/31/2015	
Code or Value	Description	Frequency
1	Had event	8773
0	Did not have event	20957
.	Missing	453

chdrev15dt	Source Dataset	
	Gold MI, Gold Death, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
CHD date variable that counts the earlier date of an mi15 event, revasc15 event, and acute CHD death	Date of chdrev15, chdrevnf15, chdrevft15, and chdrev_death15 events or censor date	
Code or Value	Description	Frequency
2003APR13-2015DEC31	Range of values	29730
.	Missing	453

chdnommi15	Source Dataset	
	Gold MI, Gold Death, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
Overall CHD variable that counts the earlier of an minommi15 event or acute CHD death (from MI Death Adjudication Form: Q5=5.3, Q6.1=6.1A, 6.1B, or Q6.2.1=6.2.1A, 6.2.1B); event date is chdnommi15dt	Total CHD excluding microsize MI: first event of definite/probable, non-microsize MI (minommi15 event) OR acute CHD death on/before 12/31/2015	
Code or Value	Description	Frequency
1	Had event	1947
0	Did not have event	27783
.	Missing	453

chdnomminf15	Source Dataset	
	Gold MI, Gold Death, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
Separated the chdnommi15 events into nonfatal and fatal CHD (mutually exclusive), where any death within 28 days of minommi15 was categorized as chdftnommift15; event date is chdnommi15dt	First nonfatal, definite/probable, non-microsize MI on/before 12/31/2015	
Code or Value	Description	Frequency
1	Had event	1061
0	Did not have event	28669
.	Missing	453

chdnommift15	Source Dataset	
	Gold MI, Gold Death, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
Acute CHD death (from MI Death Adjudication Form: Q5=5.3, Q6.1=6.1A, 6.1B, or Q6.2.1=6.2.1A, 6.2.1B) and fatal definite/probable non-microsize MI (minommi15 event with any cause of death within 28 days) and no prior adjudicated nonfatal minommi15 event; e	Acute CHD death or fatal definite/probable, non-microsize MI on/before 12/31/2015	
Code or Value	Description	Frequency
1	Had event	886
0	Did not have event	28844
.	Missing	453

chdnommi_death15	Source Dataset	
	Gold MI, Gold Death, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
chdnommi15=1 or death15=1; event date is chdnommi15dt	Total CHD excluding microsize MI (chdnommi15) or death from any cause (death15) on/before 12/31/2015	
Code or Value	Description	Frequency
1	Had event	7794
0	Did not have event	21936
.	Missing	453

chdnommi15dt	Source Dataset	
	Gold MI, Gold Death, CalcVars	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
CHD date variable that counts the earlier date of an minommi15 event and acute CHD death	Date of chdnommi15, chdnomminf15, chdnommift15, and chdnommi_death15 events or censor date	
Code or Value	Description	Frequency
2003APR13-2015DEC31	Range of values	29730
.	Missing	453

deathsite	Source Dataset	
	Gold Death	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
MI Death Adjudication form: In-hospital, Q4=4.4; Out-of-hospital, Q4=4.1, 4.2, or 4.3; if chdft15=1 or chdrevft15=1 or chdnommift15=1 and MI Death Adjudication Form Q4=missing, assumed out-of-hospital	Site of death: 0=no death or unclassifiable 1=in-hospital 2=out-of-hospital	
Code or Value	Description	Frequency
0	No death or unclassifiable	22573
1	In-hospital death	1756
2	Out-of-hospital death	5401
.	Missing	453

racesspecificregion	Source Dataset	
	REGARDS_CDCRegion	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
See "SAS label" box of this entry	High-Medium-Low tertiles of US race-specific age-adjusted county-level mortality rates for 1999-2006 CDC Wonder	
Code or Value	Description	Frequency
3HIGH	High mortality region	9520
2MEDIUM	Medium mortality region	10556
1LOW	Low mortality region	10068
.	Missing	453

nofu15	Source Dataset	
	CalcVars, Gold Death	
	SAS Dataset	
	Events Analytic	
Source information	SAS Label	
CalcVars: last_fudate = missing	No follow-up data and no known indication of death	
Code or Value	Description	Frequency
1	No follow-up data	453
0	Had follow-up data	29730

VARIABLE COMPARISON - 2009 - 2015 DATASETS

Table 1. Mapping variable names from 2009 - 2011 Events Analytic dataset for constructed variables included in datasets. Variables from the 2009 dataset not included in the table were not carried forward to the 2010 and future datasets and are listed as a footnote[†]. Newly constructed variables for the 2010 and future datasets are included as a footnote[‡]. 2012 dataset notes^{††}. 2013 dataset: no changes to variables. 2015 dataset: no changes to variables.

2009 variable	2010 variable	2011 variable
midefprb09	mi10	mi11
midefprb09dt	mi10dt	mi11dt
midefprb09type	mi10type	mi11type
revasc09	revasc10	revasc11
revasc09dt	revasc10dt	revasc11dt
cvddth09	cvdft10	cvdft11
cvddth09dt	cvdft10dt	cvdft11dt
mostsp09	chd10	chd11
mostsp09dt	chd10dt	chd11dt
mostsp_nonfatal09	chdnf10	chdnf11
mostsp_nonfatal09dt	chd10dt	chd11dt
mostsp_fatal09	chdft10	chdft11
mostsp_fatal09dt	chd10dt	chd11dt
sprevasc09	chdrev10	chdrev11
sprevasc09dt	chdrev10dt	chdrev11dt
sprevasc_nonfatal09	chdrevnf10	chdrevnf11
sprevasc_nonfatal09dt	chdrev10dt	chdrev11dt
sprevasc_fatal09	chdrevft10	chdrevft11
sprevasc_fatal09dt	chdrev10dt	chdrev11dt
racespecificregion	racespecificregion	racespecificregion
nofu09	nofu10	nofu11

[†]2009 constructed variables not in 2010 dataset and future datasets: miposs09, miposs09dt, acs09, acs09dt, acsrevasc09, acsrevasc09dt, fchddefprbin09, fchddefprbin09dt, fchddefprbout09, fchddefprbout09dt, fatcorevtin09, fatcorevtin09dt, fchdpossout09, fchdpossout09dt, suddthin09, suddthin09dt, suddthout09, suddthout09dt, modsp09, modsp09dt, lstsp09, lstsp09dt, nonfatalmimicro09, nonfatalmimicro09dt

[‡]Newly constructed variables for 2010 dataset, carried forward to future datasets: minommi10, minommi10dt, mmi10, mmi10dt, death10, death10dt, chdnommi10, chdnommi10dt, chdnomminf10, chdnommift10, chd_death10, chdrev_death10, chdnommi_death10, deathsite

^{††}2012 dataset notes: variable naming conventions same as 2011. New variable: mi12type.

SUMMARY TABLE OF EVENT COUNTS

Table 2. 2015 Events Analytic event counts.

2015 EA dataset event counts, f20180327, code 20180327 Event (variable name)	Total n	Incident† first events n	Incident first events/Total %
Analytic sample size	29,730	24,451	
First definite/probable MI (mi15)	1,759	1,074	61
First definite/probable MI excl. microsize MI (minommi15)	1,246	763	61
First microsize MI (mmi15)	650	389	60
First revascularization (revasc15)	1,858	1,145	62
CVD death (cvdft15)	2,223	1,306	59
All-cause mortality (death15)	7,157	4,867	68
Total CHD (chd15)	2,423	1,416	58
Total CHD incl. revacularization (chdrev15)	3,345	1,981	59
Total CHD excl. microsize MI (chdnommi15)	1,947	1,129	58
Nonfatal CHD (chdnf15)	1,498	923	62
Nonfatal CHD incl. revascularization (chdrevnf15)	2,480	1,505	61
Nonfatal CHD excl. microsize MI (chdnomminf15)	1,061	663	62
Fatal CHD (chdft15)	925	493	53
Fatal CHD "incl. revascularization" (chdrevft15)	865	476	55
Fatal CHD excl. microsize MI (chdnommift15)	886	466	53
Total CHD or All-cause mortality (chd_death15)	8,031	5,461	68
Total CHD incl. revacularization or All-cause mortality (chdrev_death15)	8,773	5,940	68
Total CHD excl. microsize MI or All-cause mortality (chdnommi_death15)	7,794	5,312	68
<u>First, definite/probable MI type (mi15type)</u>			
Regular	1,180	723	61
Microsize	579	351	61
<u>Site of death‡(deathsite)</u>			
No death/Unclassifiable	22,573	19,584	87
In-hospital	1,756	1,144	65
Out-of-hospital	5,401	3,723	69
<u>Race-specific CHD mortality region (racespecificregion)</u>			
High	9,520	7,786	82
Medium	10,556	8,632	82
Low	10,068	8,385	83
No follow-up indicator (nofu15)	453	383	85

Source dataset: events_analytic_20180327.sas7bdat

Source code: Events Analytic DS_20180327.sas

Footnotes

† Incident events are those among individuals free of CHD at baseline

‡ All death sites of NDI-only deaths are classified as out-of-hospital