Framingham Heart Study Longitudinal Data Documentation

The Framingham Heart Study is a long term prospective study of the etiology of cardiovascular disease among a population of free living subjects in the community of Framingham, Massachusetts. The Framingham Heart Study was a landmark study in epidemiology in that it was the first prospective study of cardiovascular disease and identified the concept of risk factors and their joint effects. The study began in 1948 and 5,209 subjects were initially enrolled in the study. Participants have been examined biennially since the inception of the study and all subjects are continuously followed through regular surveillance for cardiovascular outcomes. Clinic examination data has included cardiovascular disease risk factors and markers of disease such as blood pressure, blood chemistry, lung function, smoking history, health behaviors, ECG tracings, Echocardiography, and medication use. Through regular surveillance of area hospitals, participant contact, and death certificates, the Framingham Heart Study reviews and adjudicates events for the occurrence of Angina Pectoris, Myocardial Infarction, Heart Failure, and Cerebrovascular disease.

The enclosed dataset is a subset of the data collected as part of the Framingham study and includes laboratory, clinic, questionnaire, and adjudicated event data on 4,434 participants. Participant clinic data was collected during three examination periods, approximately 6 years apart, from roughly 1956 to 1968. Each participant was followed for a total of 24 years for the outcome of the following events: Angina Pectoris, Myocardial Infarction, Atherothrombotic Infarction or Cerebral Hemorrhage (Stroke) or death. (NOTE: Although the enclosed dataset contains Framingham data 'as collected' by Framingham investigators, specific methods were employed to ensure an anonymous dataset that protects patient confidentiality; therefore, this dataset is inappropriate for publication purposes. All persons teaching with this dataset are encouraged to ensure all users are aware that this dataset is inappropriate for publication purposes.)

The data is provided in Longitudinal form. Each participant has 1 to 3 observations depending on the number of exams the subject attended, and as a result there are 11,627 observations on the 4,434 participants. Event data for each participant has been added without regard for prevalent disease status or when examination data was collected. For example, consider the following participant:

RANDID	age	SEX	time	period	prevchd	mi_fchd	timemifc
95148	52	2	0	1	0	1	3607
95148	58	2	2128	2	0	1	3607
95148	64	2	4192	3	1	1	3607

Participant 95148 entered the study (time=0 or period=1) free of prevalent coronary heart disease (prevchd=0 at period=1); however, during followup, an MI event occurred at day 3607 following the baseline examination. The MI occurred after the second exam the subject attended (period=2 or time=2128 days), but before the third attended exam (period=3 or time=4192 days). Since the event occurred prior to the third exam, the subject was prevalent for CHD (prevchd=1) at the third examination. Note that the event data (mi_fchd, timemifc) covers the entire followup period and does not change according to exam.

The following characteristics or risk factor data are provided in the dataset. Missing values in the dataset are indicated by a period (.). In SAS, missing values are numerically the smallest possible values (for example, <0 or <-99999999).

Variable	Description	Units	Range or count
RANDID	Unique identification number for each participant		2448- 9999312
SEX	Participant sex	1=Men 2=Women	n=5022 n=6605
PERIOD	Examination Cycle	1=Period 1 2=Period 2 3=Period 3	n=4434 n=3930 n=3263
TIME	Number of days since baseline exam		0-4854
AGE	Age at exam (years)		32-81
SYSBP	Systolic Blood Pressure (mean of last two of three measurements) (mmHg)		83.5-295
DIABP	Diastolic Blood Pressure (mean of last two of three measurements) (mmHg)		30-150
BPMEDS	Use of Anti-hypertensive medication at exam	0=Not currently used 1=Current Use	n=10090 n=944
CURSMOKE	Current cigarette smoking at exam	0=Not current smoker 1=Current smoker	n=6598 n=5029
CIGPDAY	Number of cigarettes smoked each day	0=Not current smoker 1-90 cigarettes per day	
EDUC	Attained Education	1=0-11 years	
		2=High School Diploma	a, GED
		3=Some College, Voca	tional School
		4=College (BS, BA) deg	gree or more
TOTCHOL	Serum Total Cholesterol (mg/dL)		107-696
HDLC	High Density Lipoprotein Cholesterol (mg/dL)	available for period 3 only	10-189
LDLC	Low Density Lipoprotein Cholesterol (mg/dL)	available for period 3 only	20-565
ВМІ	Body Mass Index, weight in kilograms/height meters squared		14.43-56.8
GLUCOSE	Casual serum glucose (mg/dL)		39-478

Variable	Description	Units	Range or count
DIABETES	Diabetic according to criteria of first exam treated or first exam with casual glucose of 200 mg/dL or more	0=Not a diabetic 1=Diabetic	n=11097 n=530
HEARTRTE	Heart rate (Ventricular rate) in beats/min		37-220
PREVAP	Prevalent Angina Pectoris at exam	0=Free of disease 1=Prevalent disease	n=11000 n=627
PREVCHD	Prevalent Coronary Heart Disease defined as pre-existing Angina Pectoris, Myocardial Infarction (hospitalized, silent or unrecognized), or Coronary Insufficiency (unstable angina)	0=Free of disease 1=Prevalent disease	n=10785 n=842
PREVMI	Prevalent Myocardial Infarction	0=Free of disease 1=Prevalent disease	n=11253 n=374
PREVSTRK	Prevalent Stroke	0=Free of disease 1=Prevalent disease	n=11475 n=152
PREVHYP	Prevalent Hypertensive. Subject was defined as hypertensive if treated or if second exam at which mean systolic was >=140 mmHg or mean Diastolic >=90 mmHg	0=Free of disease 1=Prevalent disease	n=6283 n=5344

For Each participant the following event data is provided. For each type of event, '0' indicates the event did not occur during followup, and '1' indicates an event did occur during followup. Only the first event occurring during the interval of baseline (PERIOD=1) to end of followup is

provided:

Variable name	Description
ANGINA	Angina Pectoris
HOSPMI	Hospitalized Myocardial Infarction
MI_FCHD	Hospitalized Myocardial Infarction or Fatal Coronary Heart Disease
ANYCHD	Angina Pectoris, Myocardial infarction (Hospitalized and silent or unrecognized), Coronary Insufficiency (Unstable Angina), or Fatal Coronary Heart Disease
STROKE	Atherothrombotic infarction, Cerebral Embolism, Intracerebral Hemorrhage, or Subarachnoid Hemorrhage or Fatal Cerebrovascular Disease
CVD	Myocardial infarction (Hospitalized and silent or unrecognized), Fatal Coronary Heart Disease, Atherothrombotic infarction, Cerebral Embolism, Intracerebral Hemorrhage, or Subarachnoid Hemorrhage or Fatal Cerebrovascular Disease
HYPERTEN	Hypertensive. Defined as the first exam treated for high blood pressure or second exam in which either Systolic is ≥ 140 mmHg or Diastolic ≥ 90mmHg
DEATH	Death from any cause
TIMEAP	Number of days from Baseline exam to first Angina during the followup or Number of days from Baseline to censor date. Censor date may be end of followup, death or last known contact date if subject is lost to followup
TIMEMI	Defined as above for the first HOSPMI event during followup
TIMEMIFC	Defined as above for the first MI_FCHD event during followup
TIMECHD	Defined as above for the first ANYCHD event during followup
TIMESTRK	Defined as above for the first STROKE event during followup
TIMECVD	Defined as above for the first CVD event during followup
TIMEHYP	Defined as above for the first HYPERTEN event during followup
TIMEDTH	Number of days from Baseline exam to death if occurring during followup or Number of days from Baseline to censor date. Censor date may be end of followup, or last known contact date if subject is lost to followup

Note that defining Hypertensive requires exam participation and bias can therefore occur. Subjects attending exams regularly have a greater opportunity to be defined as hypertensive. Subjects not attending exams would be assumed to be free of hypertension. Since Hypertension is highly prevalent, this misclassification could potentially be large.

Defining Incident events

Frequently, epidemiologists need to define the population at risk for some disease or event outcome, and individuals who have previously had an event need to be excluded from the analysis so that only new or first events are counted. Incidence or first event rates can be calculated using any of the three examinations as a baseline exam. The variables PREVAP, PREVMI, PREVCHD, PREVSTRK, and PREVHYP will define the population at risk for the outcome of interest. For example, assume we are interested in incident hospitalized myocardial infarction or fatal coronary heart disease. Consider again participant 95148 and participants 477082 and 1140225 whose data are given below.

RANDID	age	SEX	time	period	prevchd	mi_fchd	timemifc
95148	52	2	0	1	0	1	3607
95148	58	2	2128	2	0	1	3607
95148	64	2	4192	3	1	1	3607
477082	38	1	0	1	0	1	1718
477082	44	1	2119	2	1	1	1718
1140225	58	2	0	1	0	0	8766
1140225	64	2	2172	2	0	0	8766
1140225	69	2	4287	3	0	0	8766

Participants are often enrolled in an observational study without regard to past medical history. The study investigators will review the medical record to determine if the participant had any pre-existing disease at the time of the first study examination. If pre-existing disease is found, then the data for that subject will reflect prevalent disease at the first exam; however, the subject will continue to be followed for any new events. All participants, regardless of their prevalent disease status, will continue to be followed and events recorded until the study ends, the participant dies, or the participant cannot be contacted to ascertain their status (lost to followup). For participants who enter the study free of disease, the incident events are used to determine prevalent disease status at later exams. For the three participants above, none entered the study with prevalent disease and using period 1 as the baseline exam, the population at risk could be defined using code similiar to the SAS code below:

data work; set frmgham; if period=1 and prevchd=0;

The data would appear as the following:

RANDID	age	SEX	time	period	prevchd	mi_fchd	timemifc
95148	52	2	0	1	0	1	3607
477082	38	1	0	1	0	1	1718
1140225	58	2	0	1	0	0	8766

The population at risk consists of all three participants (prevchd=0) and followup time for the event of hospitalized MI or fatal CHD would be the time indicated under TIMEMIFC. The first two participants (95148 and 477082) would be regarded as having an incident event during followup.

Likewise, the second examination or period=2 could also be used as a baseline exam. The full dataset can be subset to include only those at risk at the start of the second period. For example:

```
data work; set frmgham; if period=2 and prevchd=0;
```

Since time to event is provided as days since the first visit, a new time variable would need to be created so that number of days under study extends from the second exam until the end of followup:

```
newtime=timemifc-time;
```

The revised dataset that includes the population at risk beginning at period=2 and extends until the end of followup would be:

RANDID	age	SEX	time	period	prevchd	mi_fchd	timemif	c newtime
95148	58	2	2128	2	0	1	3607	1479
1140225	64	2	2172	2	0	0	8766	6594

The population at risk (those free of prevalent disease) now includes only participants 95148 and 1140225. The variable NEWTIME correctly reflects the number of days of followup from the second exam or period=2 until the first event or a censor point.

The same procedure can be used to define the third exam or period=3 as the baseline exam.

For more complex analyses, such as time-dependent analysis, or a counting process style of input, the user would have to subset the population to those free of disease at all exams and event data would have to be modified to reflect when the event occurred relative to the examinations. Consider the following SAS code which would modify the dataset to a counting process style of input for an analysis on the Hospitalized MI-Fatal CHD endpoint. The variable NEWEVNT is modified from MI_FCHD so that the event indicator is '1' only once for each participant. The variables TIME and ENDTIME define the interval the subject is at risk:

```
data analysis; set work; if prevchd=0;
proc sort data=analysis; by randid descending period;
data analysis; set analysis; by randid;
newevnt=mi_fchd;
retain exmtime;
if first.randid then do; endtime=timemifc; exmtime=time; end;
    else do;
        newevnt=0; endtime=exmtime;exmtime=time;
    end;
proc sort data=analysis; by randid period;run;
```

The data would appear, for example, as follows for three participants :

RANDID	age	SEX	period	time	endtime	newevnt	mi_fchd	timemifc
11263	43	2	1	0	2178	0	1	5719
11263	49	2	2	2178	4351	0	1	5719
11263	55	2	3	4351	5719	1	1	5719
12629	63	2	1	0	8766	0	0	8766
9069458	42	2	1	0	4362	0	0	8766
9069458	54	2	3	4362	8766	0	0	8766

SAS PROC CONTENTS PROCEDURE ON FRAMINGHAM LONGITUDINAL DATASET

The CONTENTS Procedure

Data Set Name: WORK.FRMGHAM Observations: 11627 Member Type: DATA Variables: 38 Engine: ٧8 Indexes: 0 Created: 14:50 Tuesday, March 2, 2004 Observation Length: 304 Last Modified: 14:50 Tuesday, March 2, 2004 Deleted Observations: 0 Protection: Compressed: NO Data Set Type: Sorted: NO

Label:

-----Engine/Host Dependent Information-----

Data Set Page Size: 16384

Number of Data Set Pages: 220

First Data Page: 1

Max Obs per Page: 53

Obs in First Data Page: 35

Number of Data Set Repairs: 0

Release Created: 8.0202M0 Host Created: WIN_PR0

The CONTENTS Procedure

-----Variables Ordered by Position-----

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13 glucose Num 8 Casual Glucose mg/dL 14 prevchd Num 8 Prevalent CHD (MI,AP,CI) 15 prevap Num 8 Prevalent Angina 16 prevmi Num 8 Prevalent MI (Hosp,Silent) 17 prevstrk Num 8 Prevalent Stroke (Infarct,Hem) 18 prevhyp Num 8 Prevalent Hypertension 19 time Num 8 Days since Index Exam 20 period Num 8 Examination cycle 21 hdlc Num 8 HDL Cholesterol mg/dL 22 ldlc Num 8 LDL Cholesterol mg/dL 23 death Num 8 Death indicator 24 angina Num 8 Incident Hospitalized MI 25 hospmi Num 8 Incident Hosp MI-Fatal CHD 27 anychd Num 8 Incident Hosp MI, AP, CI, Fatal CHD 28 stroke Num 8 Incident Hosp MI or Stroke, Fatal or Nor 29 cvd Num 8 Incident Hosp MI or Stroke, Fatal or Nor 30 hyperten Num 8 Incident Hypertension 31 timeap Num 8 Days Baseline-Inc Angina 32 timemi Num 8 Days Baseline-Inc MI-Fatal CHD 34 timechd Num 8 Days Baseline-Inc Any CHD 35 timestrk Num 8 Days Baseline-Inc Stroke 36 timecvd Num 8 Days Baseline-Inc CVD 37 timedth Num 8 Days Baseline-Inc CVD		•			
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anychd Num 8 Incident Hosp MI, AP, CI, Fatal CHD stroke Num 8 Incident Stroke Fatal/non-fatal cvd Num 8 Incident Hosp MI or Stroke, Fatal or Nor hyperten Num 8 Incident Hypertension timeap Num 8 Days Baseline-Inc Angina timeami Num 8 Days Baseline-Inc Hosp MI memic Num 8 Days Baseline-Inc MI-Fatal CHD timechd Num 8 Days Baseline-Inc Any CHD timestrk Num 8 Days Baseline-Inc Stroke timecvd Num 8 Days Baseline-Inc CVD memic Num 8 Days Baseline-Death	25	hospmi	Num	8	Incident Hospitalized MI
28 stroke Num 8 Incident Stroke Fatal/non-fatal 29 cvd Num 8 Incident Hosp MI or Stroke, Fatal or Non 30 hyperten Num 8 Incident Hypertension 31 timeap Num 8 Days Baseline-Inc Angina 32 timemi Num 8 Days Baseline-Inc Hosp MI 33 timemifc Num 8 Days Baseline-Inc MI-Fatal CHD 34 timechd Num 8 Days Baseline-Inc Any CHD 35 timestrk Num 8 Days Baseline-Inc Stroke 36 timecvd Num 8 Days Baseline-Inc CVD 37 timedth Num 8 Days Baseline-Death	26	mi_fchd	Num	8	Incident Hosp MI-Fatal CHD
29 cvd Num 8 Incident Hosp MI or Stroke, Fatal or Nor 30 hyperten Num 8 Incident Hypertension 31 timeap Num 8 Days Baseline-Inc Angina 32 timemi Num 8 Days Baseline-Inc Hosp MI 33 timemifc Num 8 Days Baseline-Inc MI-Fatal CHD 34 timechd Num 8 Days Baseline-Inc Any CHD 35 timestrk Num 8 Days Baseline-Inc Stroke 36 timecvd Num 8 Days Baseline-Inc CVD 37 timedth Num 8 Days Baseline-Death	27	anychd	Num	8	Incident Hosp MI, AP, CI, Fatal CHD
Num 8 Incident Hypertension Itimeap Num 8 Days Baseline-Inc Angina Itimemi Num 8 Days Baseline-Inc Hosp MI Itimemif Num 8 Days Baseline-Inc MI-Fatal CHD Itimechd Num 8 Days Baseline-Inc Any CHD Itimestrk Num 8 Days Baseline-Inc Stroke Itimecvd Num 8 Days Baseline-Inc CVD Itimedth Num 8 Days Baseline-Death	28	stroke	Num	8	Incident Stroke Fatal/non-fatal
31timeapNum8Days Baseline-Inc Angina32timemiNum8Days Baseline-Inc Hosp MI33timemifcNum8Days Baseline-Inc MI-Fatal CHD34timechdNum8Days Baseline-Inc Any CHD35timestrkNum8Days Baseline-Inc Stroke36timecvdNum8Days Baseline-Inc CVD37timedthNum8Days Baseline-Death	29	cvd	Num	8	Incident Hosp MI or Stroke, Fatal or Nor
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33 timemifc Num 8 Days Baseline-Inc MI-Fatal CHD 34 timechd Num 8 Days Baseline-Inc Any CHD 35 timestrk Num 8 Days Baseline-Inc Stroke 36 timecvd Num 8 Days Baseline-Inc CVD 37 timedth Num 8 Days Baseline-Death	31	timeap	Num	8	Days Baseline-Inc Angina
34timechdNum8Days Baseline-Inc Any CHD35timestrkNum8Days Baseline-Inc Stroke36timecvdNum8Days Baseline-Inc CVD37timedthNum8Days Baseline-Death	32	timemi	Num	8	Days Baseline-Inc Hosp MI
35 timestrk Num 8 Days Baseline-Inc Stroke 36 timecvd Num 8 Days Baseline-Inc CVD 37 timedth Num 8 Days Baseline-Death	33	timemifc	Num	8	Days Baseline-Inc MI-Fatal CHD
36 timecvd Num 8 Days Baseline-Inc CVD 37 timedth Num 8 Days Baseline-Death	34	timechd	Num	8	Days Baseline-Inc Any CHD
37 timedth Num 8 Days Baseline-Death	35	timestrk	Num	8	Days Baseline-Inc Stroke
	36	timecvd	Num	8	Days Baseline-Inc CVD
38 timehyp Num 8 Days Baseline-Inc Hypertension	37	timedth	Num	8	Days Baseline-Death
	38	timehyp	Num	8	Days Baseline-Inc Hypertension

Distributions of selected variables by period and sex

Examination cycle 1

Means selected Risk factors	N	NMiss	Mean	Std	Min	P25	Median	P75	Max
Men									
Days since Index Exam	1944	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Age (years) at examination	1944	0	49.79	8.72	33.00	42.00	49.00	57.00	69.00
Body Mass Index (kg/(M*M)	1939	5	26.17	3.41	15.54	23.97	26.08	28.32	
Systolic BP mmHg	1944	0	131.74	19.44	83.50	118.00	129.00	141.50	
Diastolic BP mmHg	1944	0	83.71	11.44	48.00	76.00	82.00	90.00	136.00
Serum Cholesterol mg/dL	1937	7	233.58	42.36	113.00	206.00	231.00	259.00	696.00
HDL Cholesterol mg/dL	0	1944							
LDL Cholesterol mg/dL	0	1944							
Casual Glucose mg/dL	1824	120	82.32	24.72	40.00	71.00	78.00	87.00	394.00
Cigarettes per day	1928	16	13.23	13.78	0.00	0.00	10.50	20.00	70.00
Ventricular Rate (beats/min)		1	74.40	11.90	44.00	66.00	75.00	80.00	130.00
Women	1010	•	7 11 10	11100	11100	00.00	70100	00.00	.00.00
Days since Index Exam	2490	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Age (years) at examination	2490	0	50.03	8.64	32.00	43.00	49.00	57.00	70.00
Body Mass Index (kg/(M*M)	2476	14	25.59	4.56	15.96	22.54	24.83	27.82	
Systolic BP mmHg	2490	0	133.82	24.46	83.50	116.00	128.50	146.50	
Diastolic BP mmHg	2490	0	82.60	12.50	50.00	74.00	81.00	89.00	142.50
Serum Cholesterol mg/dL	2445	45	239.68	46.22	107.00	206.00	237.00	269.00	600.00
HDL Cholesterol mg/dL	0	2490						200.00	000.00
LDL Cholesterol mg/dL	0	2490	•	•	•	•	•	•	•
Casual Glucose mg/dL	2213	277	82.07	24.14	40.00	72.00	78.00	86.00	394.00
Cigarettes per day	2474	16	5.65	8.96	0.00	0.00	0.00	10.00	50.00
Ventricular Rate (beats/min)		0	77.06	12.15	46.00	69.00	75.00	85.00	143.00
venti iodiai nate (beate) minj	2400	Ŭ	77.00	12.10	40.00	00.00	70.00	00.00	140.00
Examination cycle 2									
Men									
Days since Index Exam	1691	0	2173.67	72.44	1577.00	2142.00	2174.00	2205.00	2520.00
Age (years) at examination	1691	0	55.10	8.51	39.00	48.00	54.00	62.00	75.00
Body Mass Index (kg/(M*M)	1685	6	26.23	3.40	16.24	24.05	26.09	28.23	
Systolic BP mmHg	1691	0	135.48	19.90	88.00			148.00	
Diastolic BP mmHg	1691	0	84.61	10.91	53.00	78.00	84.00	91.00	
Serum Cholesterol mg/dL	1666	25	241.82	42.14	115.00	214.00		266.00	
HDL Cholesterol mg/dL	0	1691							
LDL Cholesterol mg/dL	0	1691				-			
Casual Glucose mg/dL	1518	173	82.24	23.31	40.00	70.00	77.00	88.00	362.00
Cigarettes per day	1682	9	12.23	15.04	0.00	0.00	2.00	20.00	90.00
Ventricular Rate (beats/min)		0	75.92	12.66	42.00	68.00	75.00	83.00	130.00
Women		Ū				00.00		00.00	
Days since Index Exam	2239	0	2176.22	76.20	1633.00	2144.00	2175.00	2207.00	2765.00
Age (years) at examination	2239	0	55.66	8.56	39.00	48.00	55.00	62.00	76.00
Body Mass Index (kg/(M*M)	2229	10	25.65	4.58	15.33			27.85	56.80
Systolic BP mmHg	2239	0	138.06	24.30				151.00	
Diastolic BP mmHg	2239	0	83.57	11.79	47.00	76.00	82.00	90.00	
Serum Cholesterol mg/dL	2121	118	255.67	47.53	122.00	223.00	252.00	285.00	
HDL Cholesterol mg/dL	0	2239		٠, ١٥٥					333.30
LDL Cholesterol mg/dL	0	2239						•	•
Casual Glucose mg/dL	1931	308	81.76	21.32	39.00	71.00	78.00	87.00	420.00
_									
Cigarettes per day	2215	24	5.97	10.00	0.00	0.00	0.00	10.00	60.00

Means selected Risk factors	N	NMiss	Mean	Std	Min	P25	Mediar	P75	Max
Examination cycle 3									
Men									
Days since Index Exam	1387	0	4353.75	97.74	3748.00	4312.00	4361.00	4403.00	4816.00
Age (years) at examination	1387	0	60.35	8.19	45.00	53.00	60.00	67.00	80.00
Body Mass Index (kg/(M*M)	1380	7	26.22	3.49	14.43	24.02	26.09	28.25	45.43
Systolic BP mmHg	1387	0	139.26	21.15	91.00	123.00	136.00	152.00	225.00
Diastolic BP mmHg	1387	0	82.55	11.29	30.00	75.00	81.50	90.00	123.00
Serum Cholesterol mg/dL	1312	75	225.74	41.13	130.00	198.00	222.00	252.00	413.00
HDL Cholesterol mg/dL	1304	83	43.71	13.30	10.00	35.00	42.00	51.00	138.00
LDL Cholesterol mg/dL	1304	83	170.55	44.66	34.00	140.00	167.50	199.00	376.00
Casual Glucose mg/dL	1163	224	91.17	28.99	49.00	77.00	85.00	97.00	423.00
Cigarettes per day	1380	7	8.70	13.51	0.00	0.00	0.00	20.00	80.00
<pre>Ventricular Rate (beats/min)</pre>	1387	0	75.88	12.73	43.00	66.00	75.00	85.00	150.00
Vomen									
Days since Index Exam	1876	0	4353.61	93.13	3919.00	4313.00	4362.00	4402.50	4854.00
Age (years) at examination	1876	0	60.87	8.37	44.00	54.00	60.00	67.00	81.00
Body Mass Index (kg/(M*M)	1866	10	25.65	4.45	14.53	22.59	24.80	27.94	56.80
Systolic BP mmHg	1876	0	140.92	24.14	86.00	123.00	138.00	156.00	267.00
Diastolic BP mmHg	1876	0	81.23	11.23	46.00	73.00	80.00	88.00	130.00
Serum Cholesterol mg/dL	1737	139	245.00	45.08	112.00	214.00	242.00	270.00	625.00
HDL Cholesterol mg/dL	1723	153	53.64	15.90	11.00	43.00	52.00	62.00	189.00
LDL Cholesterol mg/dL	1722	154	180.95	48.00	20.00	149.00	177.00	208.00	565.00
Casual Glucose mg/dL	1538	338	88.72	27.48	46.00	76.00	84.00	95.00	478.00
Cigarettes per day	1869	7	5.35	9.78	0.00	0.00	0.00	8.00	60.00
Ventricular Rate (beats/min)	1872	4	78.45	12.20	37.00	70.00	77.00	85.00	130.00

Examination cycle

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Percent	N	Percent	N	Percent	N	Percent	N	Percent	N	Percent	N	
100.00	1876	100.00	1387	100.00	2239	100.00	1691	100.00	2490	100.00	1944	Total
										1	moker Y/N	Current Cig S
68.98	1294	61.14	848	62.17	1392	47.96	811	59.60	1484	39.56	769	No
31.02	582	38.86	539	37.83	847	52.04	880	40.40	1006	60.44	1175	Yes
												Diabetic Y/N
92.86	1742	91.35	1267	96.38	2158	95.62	1617	97.51	2428	96.97	1885	No
7.14	134	8.65	120	3.62	81	4.38	74	2.49	62	3.03	59	Yes
										Y/N	sive meds	Anti-hyperten
13.70	257	13.63	189	2.19	49	2.19	37	1.57	39	1.13	22	Missing
70.79	1328	76.42	1060	85.75	1920	91.84	1553	94.34	2349	96.71	1880	No
15.51	291	9.95	138	12.06	270	5.97	101	4.10	102	2.16	42	Yes
										I)	(MI,AP,C	Prevalent CHD
91.47	1716	85.58	1187	94.95	2126	89.65	1516	97.19	2420	93.62	1820	No
8.53	160	14.42	200	5.05	113	10.35	175	2.81	70	6.38	124	Yes
										.ent)	(Hosp,Sil	Prevalent MI
97.71	1833	91.71	1272	98.79	2212	93.91	1588	99.36	2474	96.40	1874	No
2.29	43	8.29	115	1.21	27	6.09	103	0.64	16	3.60	70	Yes
											ina	Prevalent Ang
93.23	1749	90.41	1254	95.85	2146	92.49	1564	97.79	2435	95.27	1852	No
6.77	127	9.59	133	4.15	93	7.51	127	2.21	55	4.73	92	Yes
										ırct,Hem)	oke (Infa	Prevalent Str
97.92	1837	97.84	1357	98.44	2204	99.05	1675	99.28	2472	99.28	1930	No
2.08	39	2.16	30	1.56	35	0.95	16	0.72	18	0.72	14	Yes
										ı	ertensior	Prevalent Hyp
40.83	766	39.08	542	50.47	1130	49.73	841	67.91	1691	67.54	1313	No
59.17	1110	60.92	845	49.53	1109	50.27	850	32.09	799	32.46	631	Yes
	127 1837 39 766	9.59 97.84 2.16 39.08	133 1357 30 542	4.15 98.44 1.56 50.47	93 2204 35 1130	7.51 99.05 0.95 49.73	127 1675 16 841	2.21 99.28 0.72 67.91	55 2472 18 1691	4.73 arct,Hem) 99.28 0.72	92 oke (Infa 1930 14 ertension 1313	Yes Prevalent Str No Yes Prevalent Hyp No

Counts of Endpoints by Sex	SEX						
	Men		Women				
	N	Percent	N	Percent			
All	1944	100.00	2490	100.00			
Incident Hypertension							
No	540	27.78	642	25.78			
Yes	1404	72.22	1848	74.22			
Incident Angina Pectoris							
No	1561	80.30	2148	86.27			
Yes	383	19.70	342	13.73			
Incident Hospitalized MI							
No	1624	83.54	2356	94.62			
Yes	320	16.46	134	5.38			
Incident Hosp MI-Fatal CHD							
No	1453	74.74	2250	90.36			
Yes	491	25.26	240	9.64			
Incident Stroke Fatal/non-fatal							
No	1751	90.07	2268	91.08			
Yes	193	9.93	222	8.92			
Incident Hosp MI, AP, CI, Fatal CHD							
No	1234	63.48	1960	78.71			
Yes	710	36.52	530	21.29			
Incident Hosp MI or Stroke, Fatal or Non							
No	1258	64.71	2019	81.08			
Yes	686	35.29	471	18.92			
Death indicator							
No	1101	56.64	1783	71.61			
Yes	843	43.36	707	28.39			

Distributions of Time to Event by sex

Time to Event		N	NMiss	Mean	Std	Min	P25	Median	P75	Max
Man	Dave Deceling Inc. Humantanaian	1011		0010	0001			0150	0404	0700
Men	Days Baseline-Inc Hypertension	1944	_	3313	3391	0	0		6491	8766
	Days Baseline-Inc Angina	1944	_	6507	2929	0	4572		8766	8766
	Days Baseline-Inc Hosp MI	1944	0	6736	2771	0	5006	8766	8766	8766
	Days Baseline-Inc MI-Fatal CHD	1944	0	6655	2816	0	4822	8743	8766	8766
	Days Baseline-Inc Stroke	1944	0	7003	2509	0	5608	8766	8766	8766
	Days Baseline-Inc Any CHD	1944	0	6156	3067	0	3853	7653	8766	8766
	Days Baseline-Inc CVD	1944	0	6274	3015	0	4009	7895	8766	8766
	Days Baseline-Death	1944	0	7194	2386	26	6047	8766	8766	8766
Women	Days Baseline-Inc Hypertension	2490	0	3532	3496	0	0	2219	7340	8766
	Days Baseline-Inc Angina	2490	0	7209	2559	0	6132	8766	8766	8766
	Days Baseline-Inc Hosp MI	2490	0	7634	2154	0	7541	8766	8766	8766
	Days Baseline-Inc MI-Fatal CHD	2490	0	7600	2197	0	7452	8766	8766	8766
	Days Baseline-Inc Stroke	2490	0	7540	2262	0	7283	8766	8766	8766
	Days Baseline-Inc Any CHD	2490	0	7065	2656	0	5618	8766	8766	8766
	Days Baseline-Inc CVD	2490	0	7243	2549	0	6241	8766	8766	8766
	Days Baseline-Death	2490	0	7749	2037	34	8016	8766	8766	8766

Age Specific Angina and Hospitalized MI-Fatal CHD Incidence Rates by Sex

	Angina				Hospitalized MI - Fatal CHD					
	Person Rate/			Person Ra						
	N*	Years	Events	1,000PY	N*	Years	Events	1,000PY		
Men										
35-44	649	3,053	12	3.9	644	3,037	8	2.6		
45-54	1,278	9,587	52	5.4	1,269	9,498	67	7.1		
55-64	1,646	12,241	135	11.0	1,629	12,274	154	12.5		
65-74	1,115	7,488	78	10.4	1,125	7,623	117	15.3		
75-84	416	2,165	13	6.0	432	2,210	43	19.5		
85+	52	93	1	10.8	54	97	6	62.0		
Women										
35-44	783	3,765	3	0.8	783	3,769	2	0.5		
45-54	1,634	12,316	26	2.1	1,631	12,400	12	1.0		
55-64	2,229	17,261	123	7.1	2,238	17,675	60	3.4		
65-74	1,640	11,679	98	8.4	1,705	12,421	78	6.3		
75-84	707	3,815	35	9.2	769	4,262	55	12.9		
85+	106	287	2	7.0	121	316	7	22.1		

N* - Number of persons contributing person years to that age group. Incidence rates are calculated using derived age at time of event.

Age Specific Stroke and Cardiovascular Disease (Fatal and Non-Fatal) Incidence Rates by Sex

	Stroke				Cardiovascular Disease (CVD)					
	'	Person		Rate/	Person			Rate/		
	N*	Years	Events	1,000PY	N*	Years	Events	1,000PY		
Men										
35-44	655	3,082	1	0.3	643	3,010	13	4.3		
45-54	1,313	9,921	14	1.4	1,260	9,353	95	10.2		
55-64	1,743	13,293	42	3.2	1,588	11,769	202	17.2		
65-74	1,256	8,471	74	8.7	1,058	6,920	185	26.7		
75-84	477	2,402	44	18.3	378	1,839	75	40.8		
85+	50	97	4	41.1	41	65	9	138.0		
Women										
35-44	782	3,761	2	0.5	781	3,759	5	1.3		
45-54	1,638	12,420	10	0.8	1,621	12,282	31	2.5		
55-64	2,283	17,932	47	2.6	2,209	17,180	133	7.7		
65-74	1,760	12,713	83	6.5	1,631	11,588	148	12.8		
75-84	774	4,230	52	12.3	695	3,737	85	22.7		
85+	124	322	10	31.0	103	264	15	56.8		

N* - Number of persons contributing person years to that age group. Incidence rates are calculated using derived age at time of event.

For CVD endpoint, population at risk defined by PREVCHD=0 AND PREVSTRK=0