Supplemental Material

Supplemental Table 1. Overview of characteristics for included cohorts from the Lifetime Risk Pooling Project.*

				Cohort		
	Framingham	Framingham	Coronary Artery Risk	Atherosclerosis Risk in	National Health and	Cardiovascular Health
	Heart Study	Offspring Study	Development in Young	Communities Study	Nutrition Examination	Study
			Adults Study		Survey III- Mortality	
Location(s)	Massachusetts	Massachusetts	Oakland, CA	Minneapolis, MN	nationwide	Sacramento, CA
			Birmingham, AL	Jackson, MS		Pittsburgh, PA
			Minneapolis, MN	Forsyth County, NC		Washington County, MD
			Chicago, IL	Washington County, MD		Forsyth County, NC
Enrollment Period	1948	1971	1985-86	1987-89	1988-94	1989-90
Enrollment N*	5,209	5,124	5,115	15,792	20,050	5,887
Age at enrollment (years)	30-62	5-70	18-30	45-64	17-90	>65
Race/Ethnicity	White	White	White	White	White	White
			African American	African American	African American	African American
					Mexican American	
Exposures Collected						
Blood pressure	Х	Х	Х	Х	Х	Х
Hypertension treatment	х	X	X	Х	x	X
Complete lipid panel (TC,	Х	X	X	Х	х	х
LDL-C, HDL-C, TG)						

Lipid treatment	Х	X	Х	Х	Х	Х
Body mass index	Х	X	X	X	x	X
Fasting blood glucose	Х	X	X	X	x	X
Diabetes treatment	Х	Х	X	X X		X
Smoking	Х	Х	x	X	Х	X
Family history	Missing†	Missing†	Self-report: parental stroke	Self report: parental stroke	Incompatible; taken as	Incompatible; taken as
			or MI, parental cause of	or MI, parental cause of	missing§	missing
			death	death		
Premature family history	Missing†	Missing†	Self-report: parental MI at	Self report: parental stroke	Incompatible; taken as	Incompatible; taken as
			age<60 years,‡ parental	or MI and age at first	missing§	missing
			cause of death and age at	event, parental cause of		
			death	death and age at death		
Follow-Up						
Exam interval (years)	Every 2 years	Every 3-8 years	Every 2-5 years	Every 3 years through	N/A	Annually, 1989-1999
				1996-98, plus 1 exam		
				2011-2013		
Number of exams	32	9	8	5	1	11
Last exam	2012-2014	2011-2014	2010-2011	2011-2013	1988-94	1999
Surveillance method	Community	Medical record	Phone interview (1)	Phone interview (1)	National Death Index	Phone interview (0.5)
(interval, in years)	surveillance	surveillance		Community surveillance	(continuous)	
	(continuous)	(continuous)		(continuous)		
Date of last follow-up	2007	2007	2010	2007	2006	1999

data available

Outcomes Ascertainment

Method	Adjudicated	Adjudicated	Adjudicated	Adjudicated	ICD-9 or -10	Adjudicated
Nonfatal MI	Х	X	Х	X		X
Ischemic stroke	Х	Χ	X	X		X
CHD death	Х	Χ	X	X	X	X
CVD death	Х	Χ	X	X	X	X
All-cause death	Х	Χ	Χ	Χ	x	X

^{*}The table shows information for participants included in the Lifetime Risk Pooling Project dataset;¹ further details on individual complete cohorts are available via multiple sources for the Atherosclerosis Risk in Communities Study,²⁻⁶ Cardiovascular Health Study,⁷⁻¹⁰ Framingham Heart Study,¹¹⁻¹⁶ Framingham Offspring Study,^{11, 17-19} Coronary Artery Risk Development in Young Adults Study,^{20, 21} and National Health and Nutrition Examination Survey III-Mortality.²²⁻²⁶

†Family history information is not released with the Framingham datasets.

‡For the present analysis, the definition of premature CVD was first CHD incident or stroke at age ≤55 years in the father (or ≤60 years in the mother); therefore positive paternal history of MI at age <60 years was not considered premature CVD.

§Participants were asked, "Has either biological parent ever been told by a doctor that he or she had.... High blood pressure or stroke before the age of 50?

Heart attack or angina before the age of 50?"²⁵ Not compatible with family history definitions for the present analysis due to grouping of endpoints, lack of total (non-premature) family history data, and difference in age thresholds (<50 years) from those used for premature CVD in the present analysis (≤55 or ≤60 years in the father or mother, respectively).

||Participants were asked about the cardiovascular health histories of their siblings but not their parents. Not compatible with family history definitions for the present analysis, which focused on parental history.

TC, total cholesterol; LDL-C, low density lipoprotein cholesterol; HDL-C, high density lipoprotein cholesterol; TG, triglycerides; MI, myocardial infarction; CHD, coronary heart disease; CVD, cardiovascular disease.

Supplemental Table 2. Baseline characteristics of the familial hypercholesterolemia phenotype (LDL-C ≥190 mg/dL) and referent (LDL-C <130 mg/dL) groups, by index age.*

	Index Age and LDL Cholesterol Category								
Index Age, Years	50-59		6	0-69	70-79				
Category of baseline LDL cholesterol,	<130	≥190	<130	≥190	<130	≥190			
mg/dL	(referent)	(FH phenotype)	(referent)	(FH phenotype)	(referent)	(FH phenotype)			
Baseline person-exams	8,933 (48%)	1,440 (7.8%)	6,673 (47%)	1,135 (7.9%)	3,792 (54%)	364 (5.1%)			
Follow-up, person-years	140,335	26,605	96,472	17,848	41,419	4,316			
Female	5,062 (57%)	880 (66%)†	3,483 (52%)	768 (68%)†	1,968 (52%)	267 (73%)†			
African-American	1,977 (22%)	323 (22%)	1,060 (16%)	248 (22%)†	436 (12%)	41 (11%)			
Total cholesterol, mg/dL	184 (28)	293 (30)†	188 (30)	294 (32)†	187 (29)	297 (29)†			
LDL cholesterol, mg/dL	100 (26)	214 (25)†	101 (26)	213 (27)†	100 (25)	213 (22)†			
HDL cholesterol, mg/dL	55 (19)	48 (14)†	53 (19)	49 (13)†	53 (18)	51 (14)			
Non-HDL cholesterol, mg/dL	129 (29)	246 (30)†	135 (30)	245 (31)†	134 (29)	245 (27)†			
Systolic blood pressure, mm Hg	122 (18)	126 (20)†	129 (20)	133 (22)†	136 (21)	143 (22)†			
Diastolic blood pressure, mm Hg	75 (11)	78 (11)†	73 (11)	75 (12)†	71 (11)	75 (11)†			
Body mass index, kg/m ²	27.8 (6.0)	28.1 (5.0)	27.5 (5.3)	27.9 (4.7)†	26.9 (4.8)	27.4 (4.8)			
Smoking	2,277 (26%)	490 (34%)†	1,354 (20%)	260 (23%)†	479 (13%)	41 (11%)			
Diabetes mellitus	804 (9.0%)	168 (11.7%)†	852 (12.9%)	183 (16.2%)†	434 (12.1%)	35 (9.9%)			

Family history of CVD‡	2,266 (36%)	413 (46%)†	1,634 (40%)	267 (43%)	454 (43%)	17 (34%)
Hypertension treatment at baseline	2,142 (24.0%)	402 (27.9%)†	2,346 (35.2%)	416 (36.7%)	1,577 (42.5%)	126 (35.1%)†
Cholesterol treatment at baseline	478 (5.4%)	85 (5.9%)	482 (7.2%)	89 (7.9%)	325 (9.9%)	25 (7.5%)

^{*}Table 1 shows baseline characteristics for index ages 20-49 years.

‡Estimate among cohorts with family history data available (see Supplemental Table 1).

Continuous data presented as mean (SD), categorical data presented as N(%).

LDL, low-density lipoprotein; LDL-C, LDL cholesterol; FH, familial hypercholesterolemia; CVD, cardiovascular disease; HDL, high-density lipoprotein.

[†]p<0.05 for the comparison between participants at same index age with LDL-C≥190 vs. <130 mg/dL.

Supplemental Table 3. Baseline characteristics of men and women with the familial hypercholesterolemia phenotype (LDL-C ≥190 mg/dL), by index age.

	Index Age, Years							
	20-29	30-39	40-49	50-59	60-69	70-79		
Men								
Baseline person-exams	49	144	342	560	367	97		
Follow-up, person-years	1,145	3,154	6,398	9,775	5,293	1,038		
CHD death or nonfatal MI	3 (6.1%)	19 (13.2%)	77 (22.5%)	143 (25.5%)	111 (30.3%)	26 (26.8%)		
African-American	23 (47%)	40 (28%)	77 (23%)	115 (21%)	89 (24%)	13 (13%)		
Total cholesterol, mg/dL	283 (34)	280 (27)	286 (31)	287 (27)	285 (26)	286 (26)		
LDL cholesterol, mg/dL	213 (34)	208 (21)	211 (25)	212 (22)	210 (21)	211 (20)		
HDL cholesterol, mg/dL	47 (12)	44 (10)	43 (12)	43 (12)	44 (11)	44 (11)		
Non-HDL cholesterol, mg/dL	235 (34)	236 (26)	243 (31)	244 (27)	241 (26)	242 (34)		
Systolic blood pressure, mm Hg	120 (11)	120 (13)	123 (16)	125 (18)	132 (20)	140 (21)		
Diastolic blood pressure, mm Hg	75 (11)	78 (10)	80 (12)	79 (11)	76 (11)	76 (10)		
Body mass index, kg/m ²	26.1 (3.7)	27.4 (3.6)	28.3 (4.1)	28.0 (3.9)	27.7 (4.1)	27.2 (4.2)		
Smoking	18 (37%)	84 (59%)	149 (44%)	182 (33%)	96 (26%)	16 (16%)		
Diabetes mellitus	1 (2.0%)	4 (2.8%)	12 (3.5%)	57 (10.2%)	65 (17.8%)	13 (13.5%)		
Family history of CVD†	10 (33%)	18 (35%)	67 (39%)	162 (45%)	100 (45%)	6 (29%)		
Hypertension treatment at baseline	1 (2.0%)	6 (4.2%)	37 (10.8%)	146 (26.1%)	122 (33.2%)	28 (29.2%)		
Cholesterol treatment at baseline	0	3 (2.5%)	16 (4.7%)	39 (7.0%)	30 (8.2%)	8 (8.9%)		

Women						
Baseline person-exams	57	70	249	880	768	267
Follow-up, person-years	1,389	1,522	4,872	16,830	12,555	3,278
CHD death or nonfatal MI	4 (7.0%)	5 (7.1%)	40 (16.1%)	146 (16.6%)*	155 (20.2%)*	47 (17.6%)
African-American	25 (44%)	23 (33%)	77 (31%)*	208 (24%)	159 (21%)	28 (10%)
Total cholesterol, mg/dL	284 (28)	285 (38)	292 (37)*	298 (32)*	298 (33)*	301 (29)*
LDL cholesterol, mg/dL	213 (23)	213 (28)	215 (33)	215 (26)*	214 (30)*	214 (22)
HDL cholesterol, mg/dL	51 (13)	49 (12)*	50 (13)*	51 (14)*	51 (13)*	54 (14)*
Non-HDL cholesterol, mg/dL	233 (26)	237 (34)	242 (35)	247 (32)*	247 (34)*	246 (28)
Systolic blood pressure, mm Hg	110 (11)*	115 (20)*	122 (20)	127 (21)	134 (23)	144 (23)
Diastolic blood pressure, mm Hg	69 (10)*	73 (13)*	78 (12)*	77 (11)*	75 (12)*	75 (12)
Body mass index, kg/m ²	26.3 (5.9)	28.5 (6.8)	28.9 (5.8)	28.2 (5.6)	28.0 (5.0)	27.5 (5.0)
Smoking	28 (49%)	28 (40%)*	110 (44%)	308 (35%)	164 (21%)	25 (9%)
Diabetes mellitus	0	1 (1.4%)	23 (9.2%)*	111 (12.6%)	118 (15.5%)	22 (8.6%)
Family history of CVD†	11 (37%)	8 (29%)	52 (39%)	251 (47%)	167 (43%)	11 (38%)
Hypertension treatment at baseline	2 (3.5%)	4 (5.7%)	65 (26.1%)*	256 (29.1%)	294 (38.3%)	98 (37.3%)
Cholesterol treatment at baseline	0	1 (1.7%)	10 (4.1%)	46 (5.3%)	59 (7.7%)	17 (7.0%)

^{*}p<0.05 for the comparison between men and women at same index age.

Continuous data are presented as mean (SD), categorical data are presented as N(%).

[†]Estimate among cohorts with family history data available (see Supplemental Table 1).

LDL, low-density lipoprotein; LDL-C, LDL cholesterol; CHD, coronary heart disease; MI, myocardial infarction; HDL, high-density lipoprotein; CVD, cardiovascular
disease.

Supplemental Table 4. Race-specific familial hypercholesterolemia phenotype (defined by LDL-C≥190 mg/dL) prevalence and coronary heart disease death or nonfatal myocardial infarction at each index age.

				African American	ı				Non-African Americ	an
Index	FH Phenotype		Unadjusted CHD Rate	Unadjusted CHD Rate per 1000	Adjusted Hazard	FH Phenotype		Unadjusted CHD Rate	Unadjusted CHD Rate per 1000	Adjusted Hazard
Age (years)	Prevalence (%)	CHD Events		Person-Years for	•	Prevalence (%)	CHD Events		Person-Years for	Ratio* (95%
			Phenotype	Referent	CI)			Phenotype	Referent	CI)
20-29	1.7	3	2.8	0.5	3.7†	1.3	4	2.8	0.5	4.6†
20-29	1.7	3	2.8	0.5	(1.1-13.1)	1.5	4	2.8	0.5	(1.6-12.9)
					2.5†					3.3
30-39	2.3	5	4.3	0.7	(0.3-21.2)	2.6	19	5.8	0.9	(1.9-6.0)
40.40	4.7	10	0.3	2.6	2.3	4.6	00	44.0	2.2	3.0
40-49	4.7	19	8.2	2.6	(1.4-4.0)	4.6	98	11.9	2.2	(2.3-3.9)
F0 F0	0.7	70	44.0	6.0	2.1	7.6	240	10.0	4.7	2.0
50-59	8.7	70	14.8	6.0	(1.6-2.8)	7.6	219	10.9	4.7	(1.7-2.4)
co co	10.4	67	20.0	40.5	2.0	7.4	400	44.0	0.2	1.9
60-69	10.4	67	20.0	10.5	(1.5-2.7)	7.4	199	14.8	8.3	(1.6-2.3)
70.70	5 0	10	26.6	44.5	1.5†	5.2	62	46.0	45.0	1.2
70-79	5.0	10	26.6	14.5	(0.6-3.7)		63	16.8	15.0	(0.9-1.6)

^{*}Adjusted for: age, sex, body mass index, diabetes mellitus, smoking, systolic blood pressure, antihypertensive therapy, and cohort; all except index age 20-29 years also adjusted for high-density lipoprotein cholesterol level and cholesterol medication use. Referent is (race-specific) participants with LDL-C<130mg/dL. †Estimates may be unstable due to small numbers of events.



Supplemental Table 5. Risk of coronary heart disease death (only) for the familial hypercholesterolemia phenotype, defined by LDL-C≥190 mg/dL.

Index Age	Baseline	Person-Years	Observed	Unadjusted C	Unadjusted CHD Death Rate per 1000 Person-Years for		CHD Death Rate	Adjusted Hazard
(years)	Person-Exams	of Follow-Up	CHD Deaths	per 1000 Pe			per 1000 Person-Years for	
				FH Ph	enotype	Ref	erent	(95% CI)
20-29	106	2,534	2	Men:	1.7	Men:	0.1	6.4†
20-29	100	2,334	2	Women:	0	Women:	0.03	(1.3-31.6)
30-39	214	4,676	4	Men:	1.3	Men:	0.3	2.4†
30-39	214	4,070	4	Women:	0	Women:	0.03	(0.8-7.2)
40-49	591	11,270	41	Men:	4.4	Men:	1.5	2.6
40-49	391	11,270	41	Women:	2.7	Women:	0.2	(1.7-3.8)
50-59	1,440	26,605	135	Men:	7.7	Men:	2.8	2.6
30-39	1,440	20,003	133	Women:	3.6	Women:	0.9	(2.0-3.2)
60-69	1,135	17,848	134	Men:	11.1	Men:	5.8	1.8
60-69	1,133	17,040	134	Women:	6.0	Women:	2.6	(1.4-2.2)
70-79	364	4,316	45	Men:	14.4	Men:	9.3	1.3
70-73	304	4,310	43	Women:	9.2	Women:	6.3	(0.9-1.9)

^{*}Adjusted for: age, sex, race, body mass index, diabetes mellitus, smoking, systolic blood pressure, antihypertensive therapy, HDL-C, cholesterol medication use, and cohort. Referent is participants with LDL-C<130mg/dL.

LDL-C, low-density lipoprotein cholesterol; CHD, coronary heart disease; CI, confidence interval; HDL-C, high-density lipoprotein cholesterol.

[†]Calculations based on small numbers of events; therefore, estimates may be unstable, and adjustment is not made for HDL-C or cholesterol medication.

Supplemental Table 6. Risk of total atherosclerotic cardiovascular disease* for the familial hypercholesterolemia phenotype, defined by LDL-C≥190 mg/dL.

Index Age	Baseline Person-	Person-Years of	Observed ASCVD	Unadjusted ASCVD Rate	Unadjusted ASCVD Rate per	Adjusted Hazard
(years)	Exams	Follow-Up	Events	per 1000 Person-Years for	1000 Person-Years for	Ratio†
				FH Phenotype	Referent	(95% CI)
20-29	106	2,534	9	3.6	0.8	4.1‡
20-29	100	2,334	9	3.0	0.8	(1.2-13.4)
20.20	244	4.676	24	7.0	1.4	3.4
30-39	214	4,676	31	7.0	1.4	(2.1-5.5)
40.40	504	44.270	4.42	42.0	2.6	2.3
40-49	591	11,270	142	13.8	3.6	(1.8-2.8)
50.50	4.440	26.605	207	16.0	7.0	1.8
50-59	1,440	26,605	387	16.0	7.6	(1.5-2.0)
						1.6
60-69	1,135	17,848	362	22.6	13.8	(1.4-1.8)
						1.0
70-79	364	4,316	103	26.2	24.6	(0.8-1.3)

^{*}Total atherosclerotic cardiovascular disease: coronary heart disease death, nonfatal myocardial infarction, or ischemic stroke.

[†]Adjusted for: age, sex, race, body mass index, diabetes mellitus, smoking, systolic blood pressure, antihypertensive therapy, high-density lipoprotein cholesterol, cholesterol medication use, and cohort. Referent is participants with LDL-C<130mg/dL.

[‡]Estimate may be unstable due to small numbers of events.



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