

Supplementary Mortality Analysis

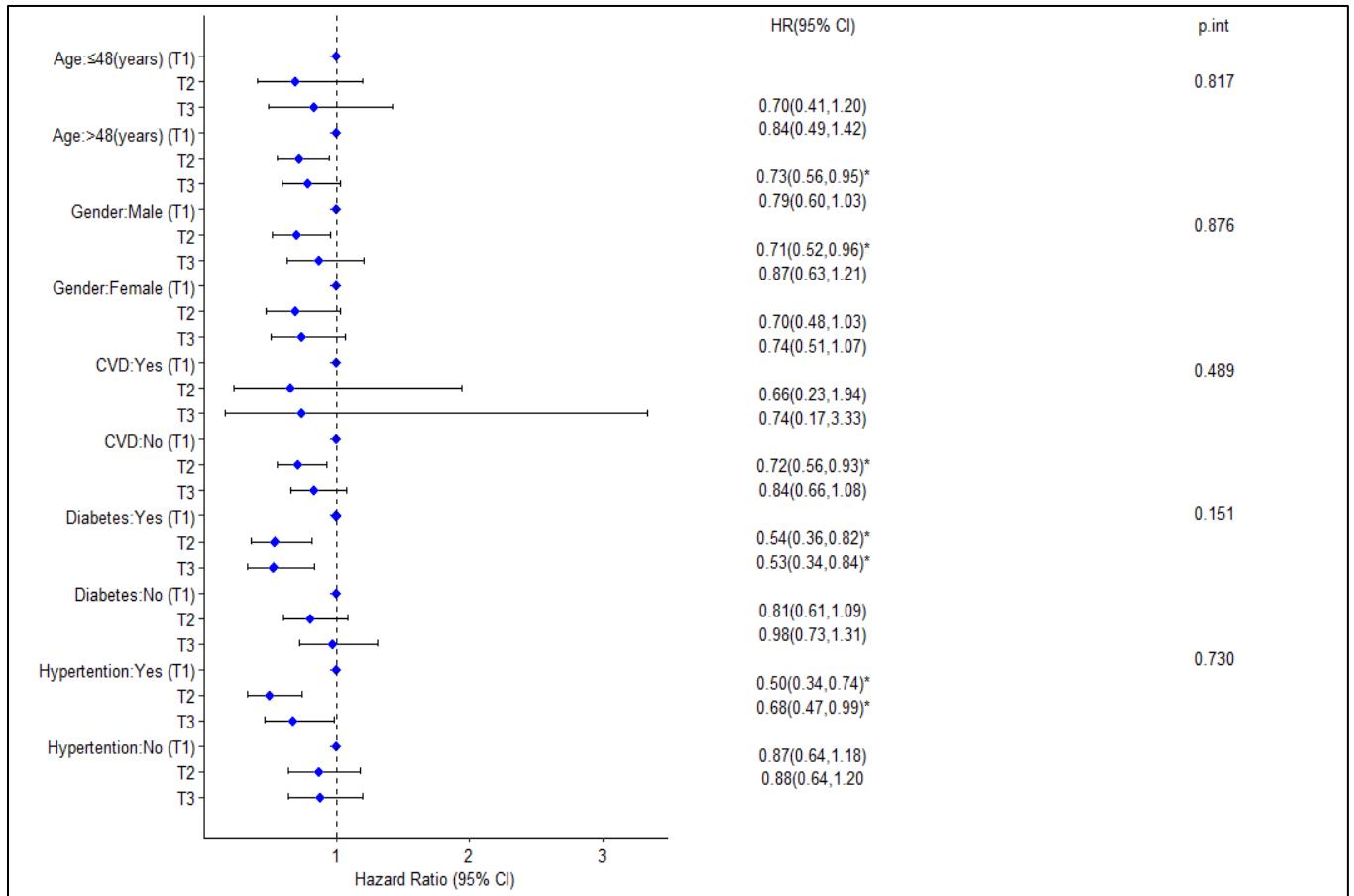
Table S1. Recorded ICD-10 codes in the death registry, which considered a death due to cardiovascular disease.

I20	Angina pectoris
I21	Acute myocardial infarction
I21.9	Acute myocardial infarction, unspecified
I25	Chronic ischemic heart disease
I25.1	Atherosclerotic heart disease
I25.9	Chronic ischemic heart disease, unspecified
I26.9	Pulmonary embolism, unspecified
I27.9	Other pulmonary heart diseases, unspecified
I45.1	Atrioventricular block, complete
I46	Cardiac arrest
I46.1	Cardiac arrest due to coronary heart disease
I49.9	Cardiac arrhythmia, unspecified
I50	Heart failure
I50.9	Heart failure, unspecified
I51.6	Other specified heart disorders
I51.9	Heart disorder, unspecified
I60	Subarachnoid hemorrhage
I60.9	Subarachnoid hemorrhage, unspecified
I61.5	Hemorrhage of unspecified type, intracerebral
I61.9	Intracerebral hemorrhage, unspecified
I63	Cerebral infarction
I63.9	Cerebral infarction, unspecified
I64	Stroke, not specified as hemorrhage or infarction
I67.8	Other specified cerebrovascular diseases
I67.9	Cerebrovascular disease, unspecified
I68.8	Other specified disorders of cerebral vessels
I69.4	Sequelae of cerebral infarction
I70.9	Atherosclerosis, unspecified
I80.2	Phlebitis and thrombophlebitis of superficial veins of lower extremities

Table S2. Number of subjects at risk and 5-year and 10-year survival probabilities across lipid profile tertiles.

Index	Tertile	All cause mortality		
		Number of at risk	5-year survival (95%CI)	10-year survival (95%CI)
LDL-C	T1	3113	0.990 (0.986,0.993)	0.963 (0.956,0.970)
	T2	3152	0.987 (0.983,0.991)	0.962 (0.956,0.969)
	T3	3241	0.985 (0.981,0.989)	0.954 (0.946,0.962)
HDL-C	T1	3088	0.983 (0.978,0.987)	0.948 (0.939,0.956)
	T2	3147	0.989 (0.986,0.993)	0.965 (0.959,0.972)
	T3	3270	0.990 (0.986,0.993)	0.965 (0.959,0.972)
Non HDL-C	T1	3092	0.991 (0.988,0.995)	0.964 (0.958,0.971)
	T2	3181	0.982 (0.985,0.992)	0.962 (0.956,0.969)
	T3	3231	0.982 (0.977,0.987)	0.952 (0.944,0.960)
TG	T1	3103	0.991 (0.988,0.994)	0.965 (0.958,0.972)
	T2	3147	0.989 (0.985,0.993)	0.964 (0.957,0.971)
	T3	3256	0.982 (0.978,0.987)	0.950 (0.942,0.958)
CVD mortality				
Index	Tertile	Number of at risk	5-year survival (95%CI)	10-year survival (95%CI)
LDL-C	T1	3113	0.996 (0.994,0.998)	0.984 (0.980,0.989)
	T2	3152	0.994 (0.991,0.997)	0.984 (0.980,0.989)
	T3	3241	0.995 (0.992,0.997)	0.978 (0.972,0.983)
HDL-C	T1	3088	0.992 (0.988,0.995)	0.974 (0.968,0.980)
	T2	3147	0.996 (0.993,0.998)	0.986 (0.982,0.991)
	T3	3270	0.997 (0.995,0.999)	0.985 (0.981,0.990)
Non HDL-C	T1	3092	0.996 (0.994,0.999)	0.985 (0.981,0.990)
	T2	3181	0.995 (0.992,0.997)	0.983 (0.977,0.987)
	T3	3231	0.993 (0.990,0.996)	0.979 (0.974,0.984)
TG	T1	3103	0.997 (0.995,0.999)	0.983 (0.978,0.988)
	T2	3147	0.996 (0.994,0.998)	0.985 (0.982,0.990)
	T3	3256	0.992 (0.989,0.995)	0.977 (0.972,0.983)
Cancer mortality				
Index	Tertile	Number of at risk	5-year survival (95%CI)	10-year survival (95%CI)
LDL-C	T1	3113	0.998 (0.996,0.999)	0.990 (0.987,0.994)
	T2	3152	0.997 (0.995,0.999)	0.987 (0.983,0.991)
	T3	3241	0.995 (0.993,0.998)	0.987 (0.983,0.991)
HDL-C	T1	3088	0.996 (0.993,0.998)	0.986 (0.981,0.990)
	T2	3147	0.998 (0.996,0.999)	0.991 (0.987,0.994)
	T3	3270	0.996 (0.994,0.998)	0.988 (0.984,0.992)
Non HDL-C	T1	3092	0.998 (0.997,1)	0.991 (0.987,0.994)
	T2	3181	0.997 (0.994,0.999)	0.988 (0.984,0.992)
	T3	3231	0.995 (0.993,0.997)	0.986 (0.982,0.990)
TG	T1	3103	0.998 (0.996,0.999)	0.992 (0.988,0.995)
	T2	3147	0.996 (0.994,0.998)	0.986 (0.982,0.991)
	T3	3256	0.996 (0.994,0.998)	0.987 (0.982,0.991)

(A) All-cause mortality.



(B) CVD mortality

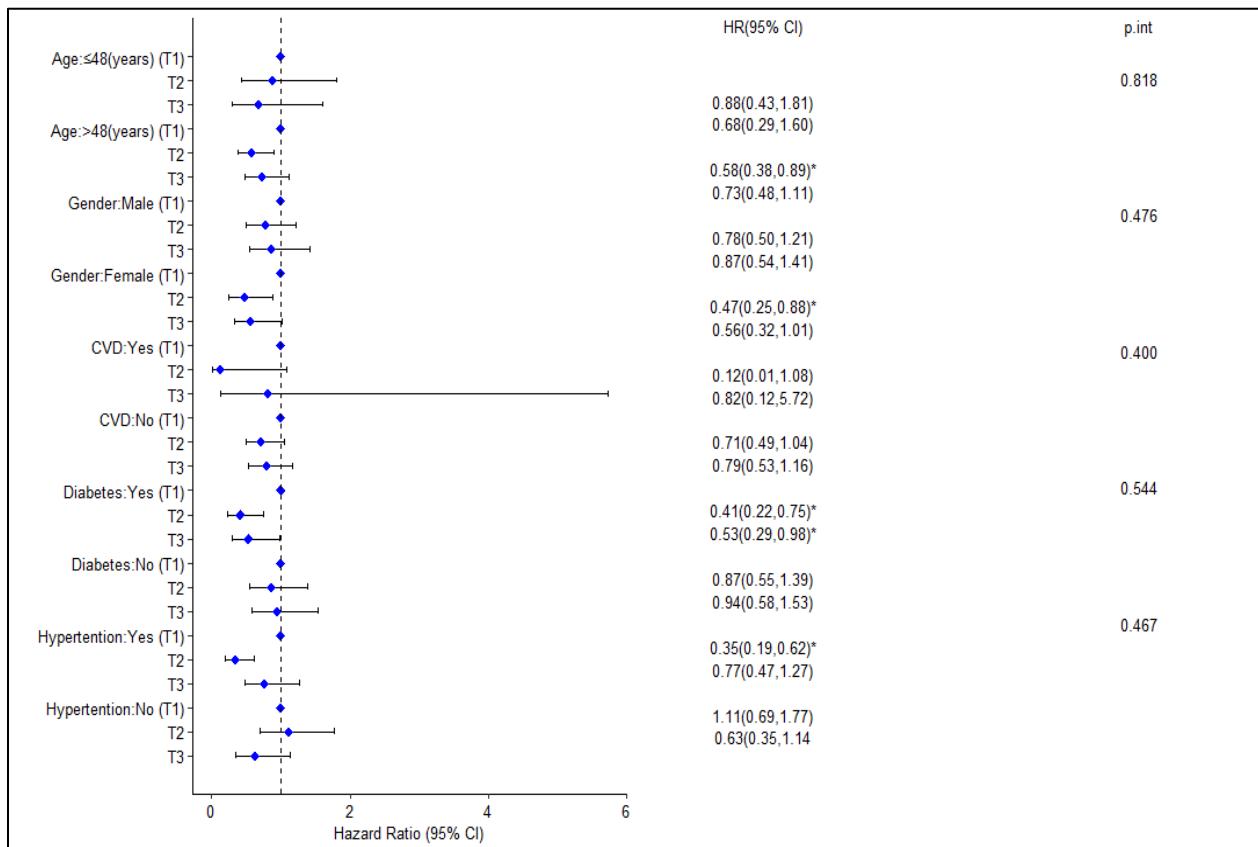
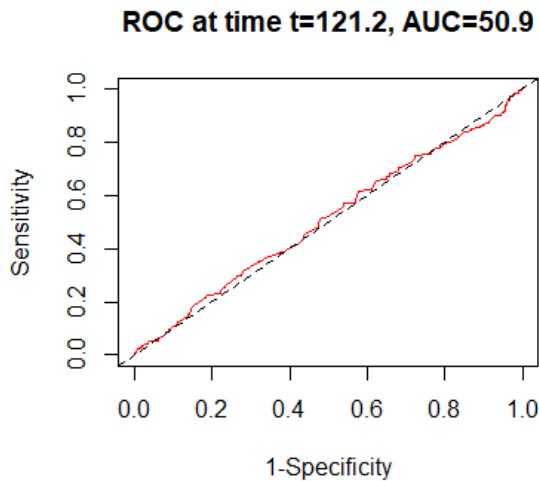


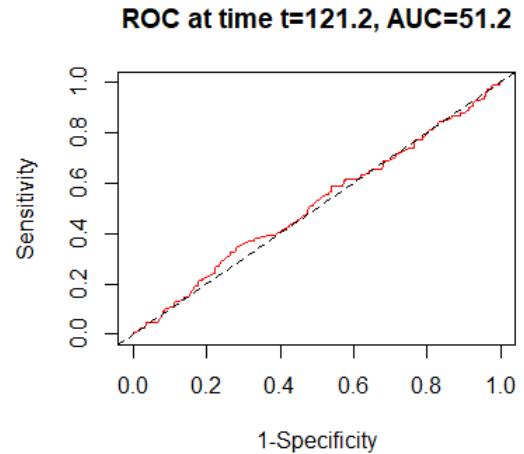
Figure S1. Subgroup analysis for the association of HDL-C level and all-cause (A) and CVD (B) mortality risk stratified by age, sex, Diabetes, Hypertension, and Dyslipidemia. Multivariable analyses were adjusted for age, sex, BMI, smoking status, diabetes, hypertension, dyslipidemia, CVD, job, marriage status, education level, and lipid-lowering drugs. p.int: P-value interaction

A) ROC curve of HDL-C to detect all-cause mortality in men



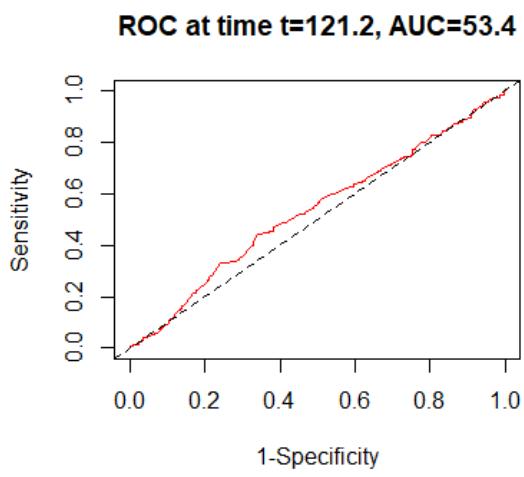
Sensitivity=51.43% cut point=37.6
Specificity= 48.08% Youden index=3.35

C) ROC curve of HDL-C to detect CVD mortality in men



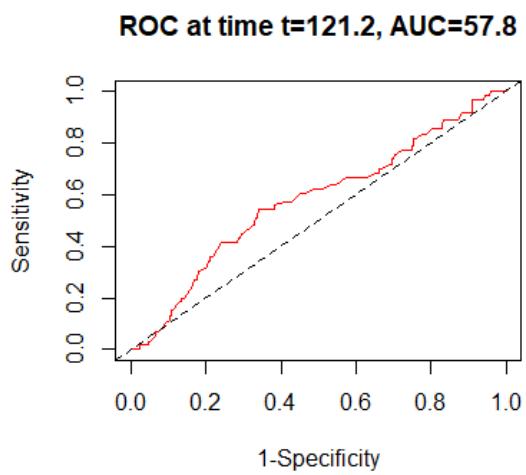
Sensitivity=37.35% cut point=34.1
Specificity= 31.9% Youden index=5.45

B) ROC curve of HDL-C to detect all-cause mortality in women



Sensitivity=44.12% cut point=40
Specificity= 34.26% Youden index=9.86

D) ROC curve of HDL-C to detect CVD mortality in women



Sensitivity=54.24% cut point=40
Specificity= 34.27% Youden index=19.97

Figure S2. ROC curves of HDL-C adjusted based on Model3.

