# Supplementary Table I. Correlations with Cholesterol Mass Efflux Capacity and Traditional CVD Risk Factors (not in Table 2) Among Controls

			Chole	esterol		
	Efflux Mass	ВМІ	Total	HDL	Triglycerides	HOMA IR
Efflux Mass	1.00					
BMI	-0.002	1.00				
P value	0.963					
Total Cholesterol	0.08	-0.07	1.00			
P value	0.036	0.057				
HDL	0.13	-0.14	0.23	1.00		
P value	<0.001	<0.001	<0.001			
Triglycerides	-0.002	0.03	0.36	-0.31	1.00	
P value	0.964	0.478	<0.001	<0.001		
HOMA IR	-0.03	0.33	-0.06	-0.29	0.23	1.00
P value	0.484	<0.001	0.117	<0.001	<0.001	

### Supplemental Table II. Multivariable Linear Regression for Cholesterol Mass Efflux Capacity

	Efflux Mass (m	ng/dL)
	β (95% CI)	P value
Age (yrs)	-0.02 [-0.03,-0.00]	0.009
Male	-0.03 [-0.32,0.27]	0.845
Race		
Caucasian	Ref	
Chinese	0.12 [-0.30,0.54]	0.573
African American	-0.06 [-0.42,0.31]	0.763
Hispanic	0.14 [-0.23,0.50]	0.471
BMI	0.01 [-0.03,0.04]	0.764
Diabetes	0.24 [-0.15,0.63]	0.220
Alcohol		
Never	ref	
Former	0.16 [-0.26,0.59]	0.451
Current	0.27 [-0.10,0.64]	0.150
Statins	-0.07 [-0.42,0.28]	0.704
Total Cholesterol	0.002 [-0.00,0.01]	0.266
HDL Cholesterol	0.02 [0.01,0.03]	0.006
Systolic BP	0.01 [-0.00,0.01]	0.075
Hypertension Medication	0.005 [-0.28,0.29]	0.974
Current Smoker	-0.05 [-0.42,0.32]	0.782

 $R^2 = 0.04$  for full model.

# Supplementary Table III. Conditional Logistic Regression Models for Plaque Progression for Model 2 with all Covariates

	Plaque Progression (N=814; Events=407)	
	OR (95% CI)	р
Age (yrs)	1.01 [0.93,1.10]	0.783
Race		
Caucasian	ref	
Chinese	0.28 [0.15,0.50]	<0.001
African American	0.52 [0.33,0.82]	0.005
Hispanic	0.74 [0.47,1.17]	0.197
BMI	0.99 [0.96,1.02]	0.568
MESA Field Center		
Wake Forest	ref	
Columbia	1.47 [0.82,2.65]	0.193
John's Hopkins	1.40 [0.77,2.57]	0.270
Minnesota	2.21 [1.17,4.18]	0.014
Northwestern	1.53 [0.85,2.74]	0.153
UCLA	2.01 [1.05,3.83]	0.034
Diabetes		
Normal	Ref	
IFG	1.12 [0.72,1.73]	0.616
Untreated Diabetes	3.58 [0.89,14.40]	0.072
Treated Diabetes	2.08 [1.11,3.88]	0.022
Current Smoker	2.50 [1.47,4.26]	0.001
Total Cholesterol	1.01 [1.00,1.01]	0.026
HDL Cholesterol	0.99 [0.97,1.00]	0.017
Statin Use	1.01 [0.63,1.61]	0.979

Hypertension Medication	0.96 [0.66,1.39]	0.818
Systolic BP	1.02 [1.01,1.02]	0.001
Efflux Mass (mg/dL) (per SD=1.9)	1.20 [1.02,1.42]	0.030

# Supplementary Table IV. Conditional Logistic Regression Models for Incident Hard CVD for Model 2 with all Covariates

	Incident Hard CVD (N=930; Events=465)	
	OR (95% CI)	р
Age (yrs)	1.19 [1.11,1.29]	<0.001
Race		
Caucasian	ref	
Chinese	0.65 [0.37,1.13]	0.126
African American	0.93 [0.61,1.41]	0.735
Hispanic	0.91 [0.58,1.43]	0.696
BMI	1.02 [0.99,1.06]	0.144
MESA Field Center		
Wake Forest	ref	
Columbia	0.90 [0.51,1.59]	0.714
John's Hopkins	0.75 [0.44,1.27]	0.285
Minnesota	1.37 [0.76,2.46]	0.296
Northwestern	0.69 [0.39,1.21]	0.192
UCLA	0.79 [0.44,1.40]	0.418
Diabetes		
Normal	Ref	
IFG	1.05 [0.70,1.59]	0.800
Untreated Diabetes	0.83 [0.38,1.81]	0.644
Treated Diabetes	2.35 [1.48,3.73]	<0.001
Current Smoker	1.72 [1.12,2.63]	0.013
Total Cholesterol	1.00 [1.00,1.01]	0.211
HDL Cholesterol	0.99 [0.98,1.01]	0.319
Statin Use	0.86 [0.58,1.28]	0.459

Hypertension Medication	1.34 [0.97,1.86]	0.080
Systolic BP	1.01 [1.01,1.02]	<0.001
Efflux Mass (mg/dL) (per SD=1.9)	0.80 [0.68,0.94]	0.006

# Supplemental Table V: Conditional Logistic Regression Model for Incident CHD for Model 2 with all Covariates

	CHD (N=540; Events=270)	
	OR (95% CI)	P value
Age (yrs)	1.18 [1.07,1.31]	0.001
Race		
Caucasian	ref	
Chinese	0.67 [0.33,1.39]	0.285
African American	0.90 [0.52,1.54]	0.690
Hispanic	0.76 [0.42,1.38]	0.372
BMI	1.03 [0.98,1.07]	0.237
Site		
Wake Forest	ref	
Columbia	1.26 [0.58,2.71]	0.556
John's Hopkins	0.76 [0.38,1.52]	0.433
Minnesota	1.48 [0.66,3.32]	0.343
Northwestern	0.77 [0.38,1.58]	0.478
UCLA	1.06 [0.49,2.27]	0.887
Diabetes	1.86 [1.04,3.32]	0.036
Current Smoker	3.21 [1.71,6.05]	<0.001
Total Cholesterol	1.00 [0.99,1.01]	0.718
HDL Cholesterol	1.00 [0.99,1.02]	0.771
Statin Use	1.13 [0.67,1.89]	0.642
Hypertension Medication	1.31 [0.87,1.97]	0.190
Systolic BP	1.01 [1.00,1.02]	0.009
Efflux Mass (mg/dL) (per SD=1.9)	0.69 [0.55,0.86]	0.001

### Supplemental Table VI: Conditional Logistic Regression Model for Incident Stroke for Model 2 with all Covariates

	Stroke (N=390; Events=195)	
	OR (95% CI)	P value
Age (yrs)	1.20 [1.07,1.36]	0.003
Race		
Caucasian	ref	
Chinese	0.83 [0.33,2.10]	0.688
African American	1.08 [0.54,2.15]	0.831
Hispanic	1.48 [0.69,3.15]	0.310
BMI	1.03 [0.98,1.09]	0.222
Site		
Wake Forest	ref	
Columbia	0.71 [0.27,1.86]	0.488
John's Hopkins	0.68 [0.26,1.80]	0.440
Minnesota	1.39 [0.48,4.02]	0.539
Northwestern	0.63 [0.23,1.76]	0.378
UCLA	0.46 [0.17,1.23]	0.122
Diabetes	2.30 [1.08,4.90]	0.030
Current Smoker	0.84 [0.44,1.59]	0.582
Total Cholesterol	1.01 [0.99,1.02]	0.365
HDL Cholesterol	0.98 [0.96,1.01]	0.133
Statin Use	0.46 [0.22,0.96]	0.039
Hypertension Medication	1.22 [0.71,2.12]	0.472
Systolic BP	1.02 [1.00,1.03]	0.005
Efflux Mass (mg/dL) (per SD=1.9)	0.99 [0.77,1.27]	0.951

Supplemental Table VII: Dose response analysis of the association between CMEC and plaque progression. Possible values for plaque progression were integers ranging from 0 to 10 (based on a plaque score ranging from 0 to 12). Progression=0 are the controls and are not included in the dose response analysis. Groups were defined as follows: 1=1; 2=2; 3-10 =3; >3 the groups were sparse and therefore considered as one category.

	Cholesterol Mass Efflux Capacity (CMEC)	
Amount of Plaque Progression	Mean ± SD	P value
All Cases of Plaque Progression	2.8 ± 1.8 (n=407)	0.162
1	3.2 ± 1.9 (n=169)	
2	2.8 ± 1.8 (n=98)	
>3	3.1 ± 2.0 (n=140)	