

SUPPLEMENTAL MATERIAL

Table S1. Sensitivity analyses for mean differences in HDL-C concentration, TC/HDL-C ratio and TG/HDL-C ratio change during 6-yr follow-up by tea consumption in 2006^{*, †}

		Tea consumption				P for trend
		Never OR <once/month	1-3 times/month	1-3 times/week	≥4 times/week	
Change in HDL-C	Excluding smokers	0 (Ref)	0.021 (0.017,0.025)	0.019 (0.014,0.023)	0.013 (0.010,0.017)	<0.0001
	Excluding alcohol consumers	0 (Ref)	0.020 (0.014,0.025)	0.014 (0.009,0.019)	0.013 (0.010,0.017)	<0.0001
	Excluding participants with diabetes	0 (Ref)	0.010 (0.007,0.013)	0.009 (0.006,0.012)	0.010 (0.007,0.013)	<0.0001
	Excluding participants with hypertension	0 (Ref)	0.009 (0.005,0.012)	0.006 (0.003,0.010)	0.008 (0.005,0.011)	<0.0001
	Excluding participants with BMI≥24 kg/m ²	0 (Ref)	0.008 (0.007,0.014)	0.008 (0.006,0.012)	0.006 (0.006,0.011)	<0.0001
	Excluding participants older than 60 y	0 (Ref)	0.010 (0.007,0.014)	0.008 (0.005,0.011)	0.009 (0.006,0.013)	<0.0001
	Excluding participants with CRP≥3mg/L	0 (Ref)	0.011 (0.007,0.014)	0.009 (0.006,0.012)	0.010 (0.007,0.013)	<0.0001
	Excluding participants with higher waist circumference (men>90cm, women >85cm)	0 (Ref)	0.010 (0.006,0.014)	0.009 (0.005,0.012)	0.009 (0.006,0.012)	<0.0001
	Excluding	0 (Ref)	0.011	0.009	0.010	<0.0001

Change in TG/HDL-C ratio	participants with severe fatty liver		(0.008,0.014)	(0.007,0.012)	(0.007,0.013)	
	Excluding smokers	0 (Ref)	-0.009 (-0.027,0.009)	0.002 (-0.041,0.045)	-0.021 (-0.037, -0.006)	0.08
	Excluding alcohol consumers	0 (Ref)	-0.008 (-0.031,0.015)	0.011 (-0.041,0.063)	-0.009 (-0.040,0.023)	0.73
	Excluding participants with diabetes	0 (Ref)	0.003 (-0.011,0.016)	0.010 (-0.015,0.035)	-0.024 (-0.036, -0.013)	0.01
	Excluding participants with hypertension	0 (Ref)	0.004 (-0.010,0.017)	0.011 (-0.014,0.035)	-0.013 (-0.035,0.009)	0.52
	Excluding participants with BMI \geq 24 kg/m ²	0 (Ref)	0.001 (-0.014,0.016)	0.003 (-0.020,0.025)	-0.011 (-0.028, 0.006)	0.36
	Excluding participants older than 60 y	0 (Ref)	0.0006 (-0.014,0.015)	0.013 (-0.014,0.041)	-0.019 (-0.033, -0.004)	0.17
	Excluding participants with CRP \geq 3mg/L	0 (Ref)	0.005 (-0.008,0.019)	0.011 (-0.011,0.034)	-0.014 (-0.030,0.002)	0.33
	Excluding participants with higher waist circumference (men>90cm, women >85cm)	0 (Ref)	0.005 (-0.008,0.019)	0.004 (-0.021,0.030)	-0.010 (-0.025,0.005)	0.45
	Excluding participants with severe fatty liver	0 (Ref)	-0.001 (-0.013,0.011)	0.010 (-0.014,0.034)	-0.016 (-0.030, -0.001)	0.16

Change in TC/HDL-C ratio	Excluding smokers	0 (Ref)	0.005 (-0.076,0.084)	-0.024 (-0.044, -0.005)	-0.025 (-0.038, -0.013)	0.006
	Excluding alcohol consumers	0 (Ref)	0.027 (-0.083,0.137)	-0.009 (-0.034,0.015)	-0.019 (-0.038, -0.001)	0.37
	Excluding participants with diabetes	0 (Ref)	0.004 (-0.030,0.037)	-0.008 (-0.021,0.006)	-0.015 (-0.024, -0.006)	0.007
	Excluding participants with hypertension	0 (Ref)	-0.009 (-0.020,0.002)	0.001 (-0.014,0.016)	0.0003 (-0.013,0.013)	0.91
	Excluding participants with BMI \geq 24 kg/m ²	0 (Ref)	-0.013 (-0.025,0.0001)	-0.015 (-0.029, -0.002)	-0.001 (-0.017, 0.015)	0.32
	Excluding participants older than 60 y	0 (Ref)	0.006 (-0.030,0.042)	-0.002 (-0.016,0.012)	-0.017 (-0.027, -0.008)	0.02
	Excluding participants with CRP \geq 3mg/L	0 (Ref)	-0.013 (-0.023, -0.002)	-0.008 (-0.021,0.005)	-0.012 (-0.022, -0.002)	0.008
	Excluding participants with higher waist circumference (men>90cm, women >85cm)	0 (Ref)	-0.012 (-0.022, -0.001)	-0.004 (-0.017, 0.009)	-0.007 (-0.019, 0.005)	0.13
	Excluding participants with severe fatty liver	0 (Ref)	0.002 (-0.031,0.034)	-0.008 (-0.021,0.005)	-0.014 (-0.024, -0.005)	0.008

* All models adjusted for age, sex(men or women), education(illiterate, middle, or college), income(<600, 600-1000,

or >1000RMB/mo), occupation (white collar, blue collar, or coal miner), physical activity (inactive, moderate, or active), smoking status (never, past, or current), alcohol drinking status (never, past, or current), blood glucose status (normoglycemia, prediabetes, or diabetes), blood pressure status (normotensive, prehypertension, or hypertension), body mass index (in kg/m²; <24, 24-27.9, 28-29.9, or ≥30), waist circumference(<85 or ≥85 cm for women, and <90 or ≥90 cm for men), C-reactive protein (<1, 1-2.9, or ≥3mg/l), fatty liver(none, mild, or severe). Models were further adjusted for TG and LDL-C for change in HDL-C, for TG for change in TC/HDL-C ratio, for LDL-C for change in TG/HDL ratio. Generalized estimating equation models were used to model change rates and to test differences in change rates compared with the never or <once/month group.

† HDL-C, high-density lipoprotein cholesterol; LDL-C, low density lipoprotein cholesterol; TC, total cholesterol; TG, triglyceride.

Table S2. Longitudinal change in HDL-C (mmol/l/year) by tea consumption in 2006 using propensity score.

Models	Tea consumption			P for trend	
	Never OR	<once/month 1-3 times/month	1-3 times/week		≥ 4 times/week
Propensity score weighting	0 (Ref)	0.013 (0.007, 0.019)	0.012 (0.006, 0.018)	0.014 (0.009, 0.020)	<0.0001
Adjusting Propensity score	0 (Ref)	0.010 (0.007, 0.013)	0.008 (0.006, 0.011)	0.010 (0.008, 0.013)	<0.0001
Stratification on the propensity score	0 (Ref)	0.010 (0.007, 0.013)	0.008 (0.006, 0.011)	0.010 (0.008, 0.013)	<0.0001