ONLINE SUPPLEMENT

Short Telomeres and Prognosis of Hypertension in a Chinese Population

Running title: Telomere and prognosis of hypertension

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Table S1. Comparison between recruited participants and excluded participants

Characteristics	Included	Excluded	P
n (men/women)	393/374	63/70	0.410
n (Case/Control)	388/379	62/71	0.398
Age (years)	52.9(9.6)	52.6(10.4)	0.237
Body mass index (kg/m^2)	25.4(3.27)	25.5(3.28)	0.875
Systolic blood pressure (mmHg)	130(18)	129(16)	0.144
Diastolic blood pressure (mmHg)	84.4(11)	84.8(10)	0.296
Fasting blood glucose (mmol/l)	5.58(1.42)	5.74(1.48)	0.329
Serum triglycerides (mmol/l)	1.78(1.46)	1.68(1.48)	0.668
Serum total cholesterol (mmol/l)	4.92(0.94)	5.04(1.05)	0.110
HDL (mmol/l)	1.67(0.53)	1.73(0.51)	0.601
Blood urine nitrogen (mmol/l)	4.75(1.8)	4.95(2.1)	0.142
Serum creatinine (μmol/l)	78.8(12.4)	80.9(13.2)	0.218

HDL stands for High-density lipoprotein cholesterol

Table S2. Linear regression analysis on characteristics and telomere length ratio

Characteristics	Unstandardized Coefficients	Std. Error	Standardized Coefficients	t	Sig.
Constant	1.102	.229		4.814	.000
Body mass index	-.012	.005	-.108	-2.213	.027
Fasting blood glucose	-.028	.013	-.098	-2.065	.040
Diastolic blood pressure	-.006	.002	-.168	-3.380	.001
Gender	-.006	.036	-.007	-.156	.876
Age	-.010	.002	-.233	-4.806	.000

Dependent Variable: log transformed telomere length ratio

Table S3. Linear regression analysis on characteristics and telomere length ratio

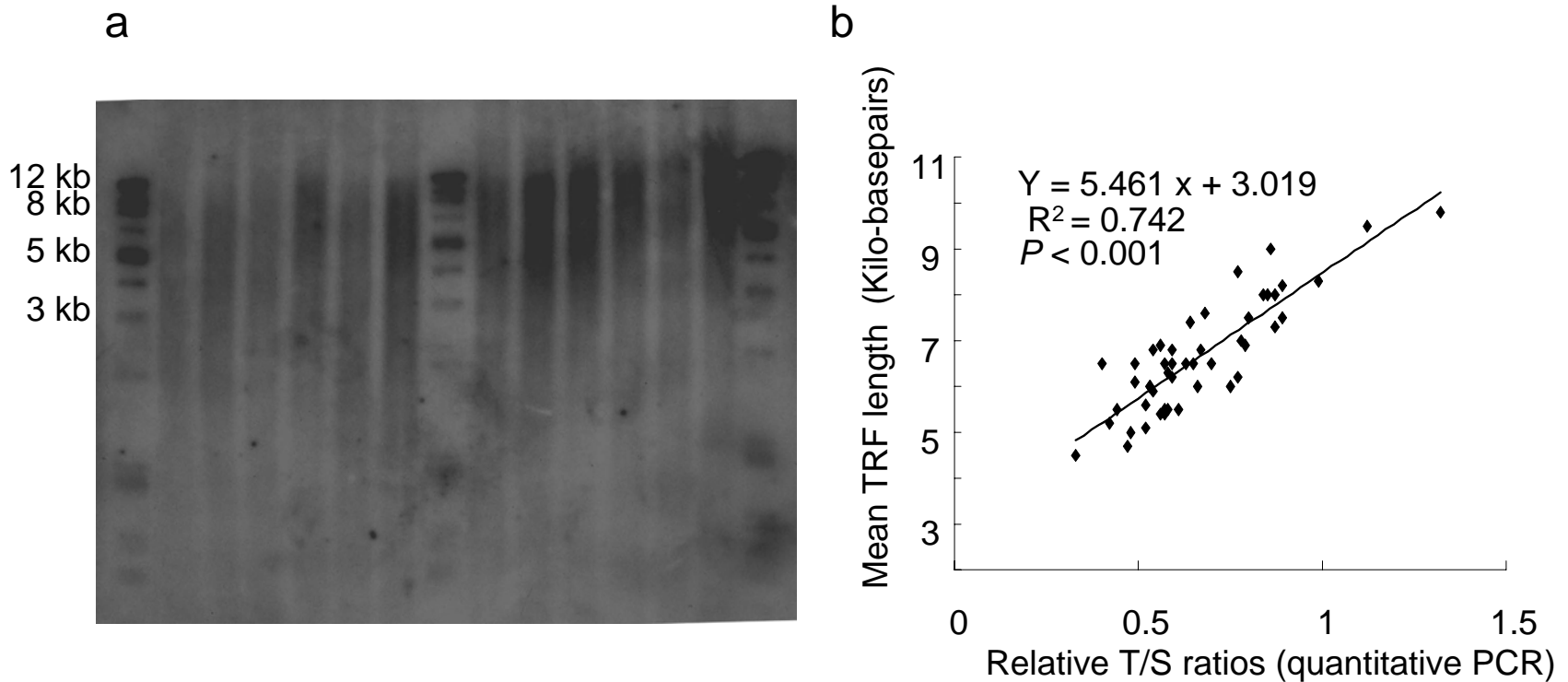| Characteristics	Unstandardized Coefficients	Std. Error	Standardized Coefficients	t	Sig.
Constant	.126	.291		.434	.665
Body mass index	-.006	.005	-.055	-1.148	.252
Fasting blood glucose	-.015	.013	-.053	-1.141	.254
Diastolic blood pressure	-.001	.002	-.036	-.669	.504
Gender	.002	.035	.003	.058	.954
Age	-.009	.002	-.213	-4.516	.000
Hypertension	.215	.041	.285	5.190	.000

Dependent Variable: log transformed telomere length ratio

Table S4. Comparison of characteristics between follow-up and drop-out subjects

Characteristics	Drop-out	Follow-up	P
n (men/women)	188/168	202/209	0.312
n (Case/Control)	167/189	221/190	0.058
Age (years)	52.8(10)	52.9(9.4)	0.151
Telomere length ratio	0.60[0.48, 0.74]	0.63[0.51, 0.87]	0.122
BMI (kg/m^2)	25.2(3.1)	25.6(3.4)	0.073
SBP (mmHg)	130(18)	131(18)	0.507
DBP (mmHg)	84.2(10.7)	84.5(11.2)	0.776
Fasting glucose (mmol/l)	5.60(1.49)	5.55(1.33)	0.537
Triglycerides (mmol/l)	1.67(1.21)	1.81(1.37)	0.437
TC (mmol/l)	4.93(0.97)	4.91(0.90)	0.084
HDL (mmol/l)	1.68(0.52)	1.66(0.54)	0.291
BUN (mmol/l)	4.76(1.74)	4.73(1.91)	0.079
SC (μmol/l)	79.7(13.3)	78.3(11.4)	0.491

BMI stands for body mass index; SBP stands for systolic blood pressure; DBP stands for diastolic blood pressure; TC stands for serum total cholesterol; HDL stands for high-density lipoprotein cholesterol; BUN stands for blood urine nitrogen; SC stands for serum creatinine.

Figure S1.

a

b

$$Y = 5.461 \, x + 3.019$$
$$R^2 = 0.742$$
$$P < 0.001$$

Correlation between relative T/S ratio determined by quantitative PCR and mean TRF length determined by Southern blot.
(a) Representative Southern blot of DNA samples from 12 individuals. (b) The histogram shows the correlation between the telomere length determined by quantitative PCR (relative T/S ratio) and the telomere length determined by Southern blot (TRF length in kilobases).