

### Supplementary File

#### Association between brachial-ankle pulse wave velocity and risk of type 2 diabetes mellitus:

#### Results from a cohort study

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**Supplementary Table 1.** Subgroup analyses in relation to tertiles of averaged ba-PWV with the T2DM incidence.

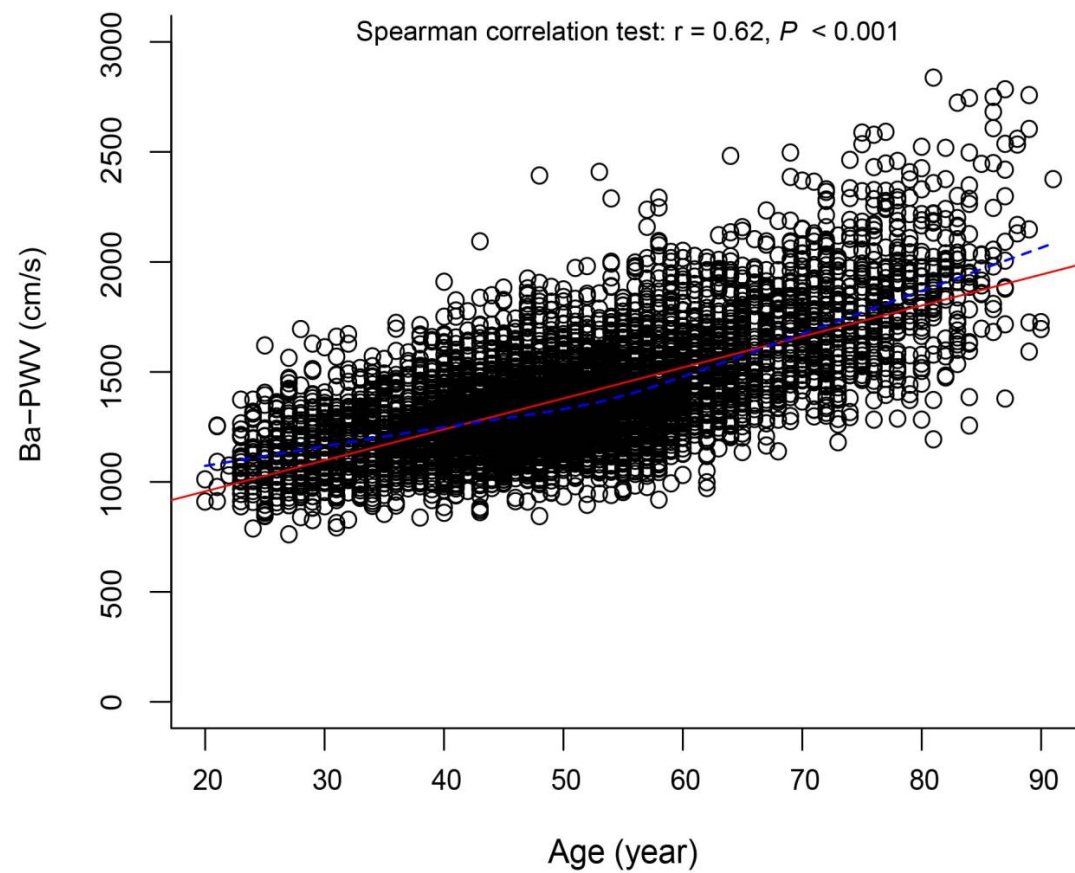
	Person-year (mean, year)	T1	T2			T3			<i>P</i> interaction	
		HR	HR	95% CI	<i>P</i> trend	HR	95% CI	<i>P</i> trend		
Sex									0.375	
Male	3.86	1.00 (Ref)	1.48	1.09	2.01	0.013	1.36	0.97	1.90	0.072
Female	3.59	1.00 (Ref)	0.99	0.54	1.80	0.978	1.29	0.67	2.48	0.452
Age (year)										<b>&lt;0.001</b>
20.0-44.9	3.86	1.00 (Ref)	1.78	0.86	3.68	0.121	3.15	1.37	7.24	0.007
45.0-64.9	3.89	1.00 (Ref)	1.29	0.96	1.73	0.009	1.27	0.93	1.75	0.134
≥65.0	3.74	1.00 (Ref)	0.91	0.21	3.99	0.902	1.07	0.26	4.35	0.928
BMI (kg/m <sup>2</sup> ) *										0.448
18.0-23.9	3.78	1.00 (Ref)	1.10	0.68	1.76	0.701	1.02	0.69	1.50	0.914
24.0-27.9	3.83	1.00 (Ref)	1.00	0.71	1.41	0.991	0.91	0.66	1.26	0.589
≥28.0	3.64	1.00 (Ref)	1.09	0.86	1.37	0.488	1.03	0.83	1.28	0.811
TC (mmol/L)										0.241
< 5.06 †	3.58	1.00 (Ref)	1.41	0.93	2.14	0.108	1.62	1.02	2.56	0.040
≥5.06	3.99	1.00 (Ref)	1.41	0.98	2.00	0.061	1.17	0.79	1.72	0.440
Smoking status										<b>0.006</b>
Never	3.67	1.00 (Ref)	1.36	0.96	1.92	0.084	1.15	0.77	1.73	0.498
Past	4.01	1.00 (Ref)	1.19	0.66	2.15	0.554	1.05	0.57	1.95	0.865
Current	3.82	1.00 (Ref)	2.10	1.07	4.11	0.030	2.77	1.39	5.53	0.004
Drinking status										0.132

Never	3.75	1.00 (Ref)	1.60	1.04	2.47	0.031	1.76	1.10	2.81	0.018
Past	3.95	1.00 (Ref)	2.62	0.98	7.05	0.056	2.72	0.94	7.87	0.065
Current	3.75	1.00 (Ref)	1.12	0.77	1.62	0.554	0.94	0.62	1.43	0.775
Hs-CRP										0.146
Without	4.11	1.00 (Ref)	1.36	1.02	1.79	0.033	1.32	0.97	1.79	0.077
With	2.05	1.00 (Ref)	3.20	1.01	10.18	0.048	2.62	0.76	9.02	0.126

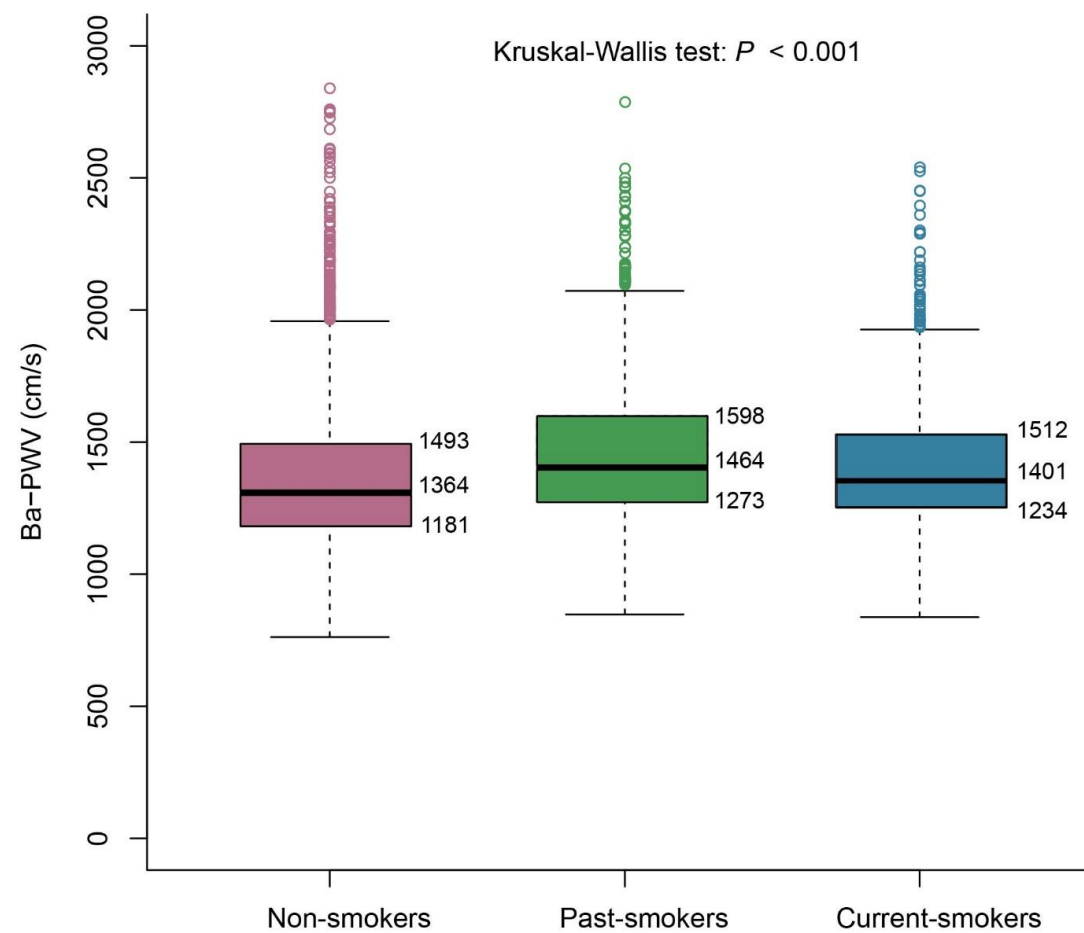
Notes: All the data were adjusted for the covariates in model 3. *P* for trend, *P* value for trend across tertiles; *P* for interaction, *P* value for interaction across variables;

T1-T3, averaged ba-PWV values were divided into 3 tertiles:  $\leq 1253$  cm/s, 1253 – 1442 cm/s,  $> 1442$  cm/s; \* The BMI standard of China; † Mean value of TC.

Abbreviations: Ba-PWV, brachial-ankle pulse wave velocity; BMI, body mass index; T2DM, type 2 diabetes mellitus; TC, total cholesterol.



**Supplementary Figure 1.** Scatter plot showing correlation between ba-PWV levels and age.



**Supplementary Figure 2.** Box plots of showing the distribution of ba-PWV levels of three smoking status groups.