

## **SUPPLEMENTAL MATERIAL**

Cooper, LL, Rong, J, Benjamin, EJ, et al. Components of Hemodynamic Load and Cardiovascular Events: The Framingham Heart Study.

### **Supplemental Content:**

**Supplemental Table 1. Comparison of baseline characteristics of included and excluded participants.**

**Supplemental Table 2. Matrix of Pearson correlation coefficients for measures of individual hemodynamic components ( $N=2492$ ).**

This supplementary material has been provided by the authors to give the readers additional information about their work.

**Supplemental Table 1. Comparison of baseline characteristics of included and excluded participants.**

<b>Variable</b>	<b>Included (N = 2492)</b>	<b>Excluded (N varies)</b>
<b>Clinical Measures</b>		
Age, years	66 ± 9	72 ± 9
Women, N (%)	1402 (56)	261 (49)
Height, cm	167 ± 10	167 ± 9
Weight, kg	78 ± 17	81 ± 19
Body mass index, kg/m <sup>2</sup>	28 ± 5	30 ± 6
Physician blood pressure, mm Hg		
Systolic	128 ± 17	131 ± 19
Diastolic	74 ± 10	70 ± 10
Pulse	54 ± 16	60 ± 18
Heart rate, beats/min	62 ± 10	63 ± 11
Total cholesterol, mg/dl	189 ± 37	169 ± 36
HDL cholesterol, mg/dl	58 ± 18	51 ± 16
Hypertension treatment, N (%)	1124 (45)	322 (63)
Diabetes, N (%)	288 (12)	128 (30)
Current smoker, N (%)	219 (9)	54 (10)
<b>Hemodynamics measures</b>		
True forward pressure wave amplitude, mm Hg	57 ± 17	60 ± 19
Tonometry mean arterial pressure, mm Hg	98 ± 12	100 ± 13
Global reflection coefficient	0.36 ± 0.07	0.35 ± 0.07

All values are mean ± standard deviation except as noted. Note that N varies (45 – 529) for excluded participants based on availability of data.

**Supplemental Table 2. Matrix of Pearson correlation coefficients for measures of individual hemodynamic components (N=2492).**

	Central SBP	SBP	MAP	DBP	Brachial PP	Forward wave	Backward wave	Reflection coefficient	Primary wave	Z <sub>c</sub>	Peak flow	CFPWV
<b>Physician SBP</b>	0.73 <0.001	0.77 <0.001	0.65 <0.001	0.29 <0.001	0.67 <0.001	0.62 <0.001	0.61 <0.001	0.04 0.04	0.56 <0.001	0.45 <0.001	-0.01 0.59	0.50 <0.001
<b>Central SBP</b>		0.94 <0.001	0.85 <0.001	0.35 <0.001	0.83 <0.001	0.84 <0.001	0.85 <0.001	0.08 <0.001	0.76 <0.001	0.64 <0.001	-0.07 <0.001	0.52 <0.001
<b>SBP</b>			0.85 <0.001	0.36 <0.001	0.89 <0.001	0.81 <0.001	0.80 <0.001	0.05 0.007	0.74 <0.001	0.60 <0.001	-0.04 0.05	0.58 <0.001
<b>MAP</b>				0.76 <0.001	0.53 <0.001	0.52 <0.001	0.58 <0.001	0.12 <0.001	0.47 <0.001	0.40 <0.001	-0.06 0.002	0.45 <0.001
<b>DBP</b>					-0.11 <0.001	-0.10 <0.001	-0.003 0.89	0.14 <0.001	-0.11 <0.001	-0.10 <0.001	0.01 0.49	0.16 <0.001
<b>Brachial PP</b>						0.91 <0.001	0.86 <0.001	-0.01 0.50	0.84 <0.001	0.68 <0.001	-0.05 0.016	0.54 <0.001
<b>Forward wave</b>							0.78 <0.001	-0.24 <0.001	0.97 <0.001	0.79 <0.001	-0.05 0.009	0.52 <0.001
<b>Backward wave</b>								0.39 <0.001	0.66 <0.001	0.55 <0.001	-0.06 0.003	0.38 <0.001
<b>Reflection coefficient</b>									-0.39 <0.001	-0.30 <0.001	-0.002 0.94	-0.18 <0.001
<b>Primary wave</b>										0.79 <0.001	-0.02 0.45	0.51 <0.001
<b>Z<sub>c</sub></b>											-0.62 <0.001	0.45 <0.001
<b>Peak flow</b>												-0.09 <0.001

Top value is *r*, and bottom value is *P* in each cell. SBP, systolic blood pressure; DBP, diastolic blood pressure; PP, pulse pressure; Z<sub>c</sub>, aortic characteristic impedance; CFPWV, carotid femoral pulse wave velocity. All values were obtained at the time of tonometry except physician