

SUPPLEMENTARY DATA

**Supplementary Table.** Association between RMSSD and measures of AS(BrachD, PWV-trunk and AIX75) in sequentially adjusted linear regression models. The significant associations are in bold font.

	Type 1 diabetes (n=344)			Controls (n=171)		
	BrachD	PWV-Trunk	AIX75	BrachD	PWV-Trunk	AIX75
<b>Model 1</b>						
β(SE)	<b>0.29(0.08)</b>	<b>-0.23(0.05)</b>	<b>-1.5(0.7)</b>	0.25(0.1)	-0.06(0.09)	-1.8(1.3)
P value	<b>0.0009</b>	<b>0.0001</b>	<b>0.03</b>	0.1	0.5	0.1
Adjusted R <sup>2</sup>	<b>0.09</b>	<b>0.28</b>	<b>0.18</b>	0.17	0.19	0.14
<b>Model 2</b>						
β(SE)	<b>0.29(0.1)</b>	<b>-0.21(0.05)</b>	<b>-1.4(0.7)</b>	0.23(0.1)	-0.01(0.09)	-1.09(1.3)
P value	<b>0.0004</b>	<b>0.0001</b>	<b>0.05</b>	0.1	0.8	0.4
Adjusted R <sup>2</sup>	<b>0.22</b>	<b>0.36</b>	<b>0.21</b>	0.36	0.28	0.19
<b>Model 3</b>						
β(SE)	<b>0.32(0.09)</b>	<b>-0.18(0.05)</b>	-1.3(0.8)	0.26(0.1)	-0.06(0.09)	-1.8(1.3)
P value	<b>0.0004</b>	<b>0.001</b>	0.09	0.1	0.5	0.1
Adjusted R <sup>2</sup>	<b>0.11</b>	<b>0.30</b>	0.11	0.25	0.21	0.13
<b>Model 4</b>						
β(SE)	<b>0.28(0.08)</b>	<b>-0.22(0.05)</b>	<b>-1.9(0.7)</b>	0.19(0.1)	-0.01(0.09)	-1.8(1.3)
P value	<b>0.0006</b>	<b>&lt;0.0001</b>	<b>0.01</b>	0.2	0.8	(0.1)
Adjusted R <sup>2</sup>	<b>0.20</b>	<b>0.33</b>	<b>0.10</b>	0.44	0.31	0.11
<b>Model 5</b>						
β(SE)	<b>0.26(0.09)</b>	<b>-0.23(0.06)</b>	<b>-1.8(0.8)</b>	0.24(0.1)	-0.04(0.09)	-1.8(1.3)
P value	<b>0.007</b>	<b>&lt; 0.0001</b>	<b>0.03</b>	P=0.1	0.6	0.1
Adjusted R <sup>2</sup>	<b>0.10</b>	<b>0.28</b>	<b>0.07</b>	0.17	0.18	0.15
<b>Model 6</b>						
β(SE)	<b>0.28(0.08)</b>	<b>-0.23(0.05)</b>	<b>-1.9(0.7)</b>	0.21(0.1)	-0.06(0.09)	-2.0(1.3)
P value	<b>0.001</b>	<b>&lt; 0.0001</b>	<b>0.01</b>	0.1	0.5	0.1
Adjusted R <sup>2</sup>	<b>0.09</b>	<b>0.28</b>	<b>0.10</b>	0.16	0.18	0.11
<b>Model 7</b>						

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$\beta$ (SE)	<b>0.32(0.08)</b>	<b>-0.18(0.05)</b>	-1.3(0.8)	0.13(0.12)	0.03(0.08)	-1.4(1.3)
P value	<b>0.0002</b>	<b>0.001</b>	0.1	0.3	0.6	0.2
Adjusted R <sup>2</sup>	<b>0.32</b>	<b>0.37</b>	0.08	0.53	0.38	0.18
<b>Model 8</b>						
$\beta$ (SE)	<b>0.33(0.08)</b>	<b>-0.16(0.05)</b>	-1.2(0.9)	<b>0.11(0.13)</b>	0.03(0.08)	-0.8(1.3)
P value	<b>0.0002</b>	<b>0.006</b>	0.1	<b>0.3</b>	0.6	(0.5
Adjusted R <sup>2</sup>	<b>0.32</b>	<b>0.38</b>	0.08	0.53	0.38	0.26
<b>Model 9</b>						
$\beta$ (SE)	-0.001(0.13)	-0.08(0.08)	-2.3(1.2)	0.008(0.19)	0.11(0.12)	1.4(1.8)
P value	0.9	0.3	0.06	0.9	0.3	0.4
Adjusted R <sup>2</sup>	0.28	0.35	0.13	0.48	0.35	0.24

RMSSD= root mean squared difference of successive RR interval; BrachD=Brachial Distensibility, PWV-trunk= Pulse wave velocity in carotid-femoral segment, A1x75= Augmentation index adjusted to heart rate of 75 beats/min

Model 1: Adjusted for age, race, sex

Model 2: Model 1+ DBP

Model 3= Model 1+ LDL-c HDL-c TG

Model 4: Model 1+ BMI

Model 5: Model 1+ AER

Model 6: Model 1 + smoking

Model 7: age, race, sex, DBP, LDL-c, HDL-c, TG, BMI, AER, smoking

Model 8: Model 7 + A1c

Model 9 : model 7 + resting heart rate