

SUPPLEMENTARY MATERIAL

Carotid artery intima-media thickness, distensibility, and elasticity: Population epidemiology and concordance in Australian 11-12 year old children and their parents

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Supplementary Table 1. Percentile values for primary and secondary outcomes.

Characteristic	Child							Parent						
	P5	P10	P25	P50	P75	P90	P95	P5	P10	P25	P50	P75	P90	P95
Far wall mean IMT, mm	P5	P10	P25	P50	P75	P90	P95	P5	P10	P25	P50	P75	P90	P95
Male	0.382	0.404	0.472	0.520	0.546	0.560	0.566	0.454	0.502	0.540	0.592	0.684	0.744	0.816
Female	0.384	0.402	0.446	0.512	0.538	0.556	0.560	0.462	0.498	0.532	0.554	0.576	0.638	0.684
All	0.382	0.404	0.458	0.518	0.540	0.560	0.563	0.462	0.500	0.532	0.556	0.588	0.658	0.706
Far wall maximum IMT, mm	P5	P10	P25	P50	P75	P90	P95	P5	P10	P25	P50	P75	P90	P95
Male	0.500	0.528	0.564	0.590	0.614	0.654	0.680	0.566	0.586	0.622	0.716	0.836	0.930	0.970
Female	0.504	0.530	0.560	0.580	0.598	0.628	0.646	0.562	0.572	0.594	0.630	0.688	0.768	0.812
All	0.502	0.528	0.562	0.580	0.606	0.640	0.666	0.564	0.574	0.596	0.638	0.706	0.796	0.858
Diameter distensibility, %	P5	P10	P25	P50	P75	P90	P95	P5	P10	P25	P50	P75	P90	P95
Male	12.4	13.2	15.1	16.8	19.0	21.0	22.1	4.7	5.4	6.9	8.1	9.5	11.0	11.9
Female	12.6	13.9	15.5	17.4	19.4	22.3	23.8	5.8	6.5	7.6	8.8	10.4	11.8	12.8
All	12.5	13.6	15.3	17.1	19.2	21.4	23.3	5.6	6.3	7.5	8.7	10.3	11.7	12.8
Carotid Elasticity, %/mmHg	P5	P10	P25	P50	P75	P90	P95	P5	P10	P25	P50	P75	P90	P95
Male	0.325	0.360	0.418	0.469	0.524	0.575	0.616	0.126	0.144	0.175	0.211	0.242	0.274	0.306
Female	0.349	0.376	0.427	0.479	0.542	0.620	0.660	0.156	0.177	0.209	0.246	0.291	0.335	0.362
All	0.339	0.368	0.422	0.472	0.532	0.596	0.645	0.151	0.171	0.207	0.242	0.285	0.332	0.355

IMT: intima-media thickness, PX: value of Xth percentile, e.g. P50 = median

Supplementary Table 2. Directly comparable parent-offspring Pearson's correlation coefficients between the current study, and previously published literature. For Ryder et al.,¹ Pearson correlations adjusted for age, sex, race, body mass index, mean arterial pressure, and smoking of both participants.

Outcome	CheckPoint (n=1255 to 1437)	Ryder et al. ¹ (n=477)
Far wall maximum IMT	0.08 (0.01, 0.15)	0.08 (p=0.08)
Carotid artery distensibility	0.18 (0.18, 0.23)	0.19 (p<0.01)

References

1. Ryder JR, Pankratz ND, Dengel DR, Pankow JS, Jacobs DR, Jr., Sinaiko AR, Gooty V and Steinberger J. Heritability of Vascular Structure and Function: A Parent-Child Study. *J Am Heart Assoc.* 2017;6.