

Supplementary Materials

Table S1. Blood pressure and other cardiovascular risk factors associated with the presence of calcium in each aortic thoracic segments in the final multivariate analysis. ELSA-Brasil, 2015–2016.

| Variables | AAC > 0 | ATAC > 0 | DTAC > 0 | ADTAC > 0 |
|--|---------------------------|---------------------------|---------------------------|---------------------------|
| Age (years) | 1.11 (1.10–1.13) ‡ | 1.09 (1.07–1.11) ‡ | 1.11 (1.09–1.12) ‡ | 1.11 (1.09–1.12) ‡ |
| Women | 0.95 (0.78–1.16) | 1.16 (0.93–1.44) | 0.87 (0.71–1.06) | 0.97 (0.80–1.18) |
| Educational level | | | | |
| University degree | 1.00 | 1.00 | 1.00 | 1.00 |
| Complete secondary | 1.15 (0.92–1.44) | 1.00 (0.78–1.28) | 0.99 (0.79–1.25) | 1.04 (0.83–1.30) |
| Complete elementary | 1.72 (0.98–3.02) | 0.91 (0.56–1.49) | 0.90 (0.57–1.43) | 0.79 (0.50–1.25) |
| Incomplete elementary | 1.66 (0.91–3.04) | 1.68 (1.02–2.78) * | 1.60 (0.97–2.64) | 1.99 (1.17–3.36) * |
| Smoker | | | | |
| Never | 1.00 | 1.00 | 1.00 | 1.00 |
| Past | 1.26 (1.01–1.58) * | 1.80 (1.42–2.27) ‡ | 0.94 (0.75–1.18) | 1.16 (0.93–1.43) |
| Current | 2.09 (1.47–2.95) ‡ | 2.55 (1.81–3.60) ‡ | 1.79 (1.30–2.48) ‡ | 1.90 (1.38–2.61) ‡ |
| Physical activity | | | | |
| Insufficient | 1.00 | 1.00 | 1.00 | 1.00 |
| Moderate | 1.21 (0.94–1.54) | 1.36 (1.05–1.76) * | 0.85 (0.66–1.09) | 0.96 (0.75–1.22) |
| Vigorous | 1.01 (0.72–1.42) | 1.30 (0.87–1.94) | 1.23 (0.85–1.78) | 1.27 (0.89–1.81) |
| Family history of CVD | 1.37 (1.12–1.68) † | 1.17 (0.94–1.45) | 1.07 (0.87–1.31) | 1.13 (0.93–1.39) |
| Body mass index (kg/m ²) | 1.05 (1.03–1.07) ‡ | 1.06 (1.03–1.08) ‡ | 1.04 (1.02–1.06) ‡ | 1.0 (1.0–1.1) ‡ |
| Systolic blood pressure (mmHg) | 1.01 (1.00–1.02) | 1.01 (1.00–1.02) | 1.02 (1.01–1.03) ‡ | 1.01 (1.00–1.03) * |
| Diastolic blood pressure (mmHg) | 1.00 (1.00–1.01) | 1.00 (0.98–1.02) | 1.00 (0.98–1.01) ‡ | 1.00 (0.99–1.02) |
| Dyslipidemia | 1.17 (0.96–1.43) | 1.70 (1.37–2.10) ‡ | 1.26 (1.03–1.53) * | 1.48 (1.22–1.79) ‡ |
| Use of blood pressure lowering medications | 1.56 (1.25–1.93) ‡ | 1.52 (1.22–1.91) ‡ | 1.82 (1.48–2.25) ‡ | 1.82 (1.49–2.23) ‡ |
| Diabetes | 1.06 (0.79–1.41) | 1.31 (1.00–1.71) * | 1.28 (0.99–1.66) | 1.42 (1.09–1.84) † |

Data are expressed as odds ratio (95% confidence interval). * $p \leq 0.05$; † $p \leq 0.01$; ‡ $p \leq 0.001$. AAC indicates aortic arch calcium; ATAC, ascending thoracic aortic calcium; CVD, cardiovascular disease; DTAC, descending thoracic aortic calcium; ADTAC, ascending plus descending thoracic aortic calcium.

Table S2. Cardiovascular risk factors associated with the presence of calcium in the thoracic aortic segments after adjustments for body surface in the final multivariate analysis. ELSA-Brasil, 2015–2016.

| Variables | AAC > 0 | ATAC > 0 | DTAC > 0 | ADTAC > 0 |
|-----------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Age (years) | 1.12 (1.10–1.13) ‡ | 1.09 (1.08–1.11) ‡ | 1.11 (1.10–1.13) ‡ | 1.11 (1.10–1.13) ‡ |
| Women | 0.86 (0.65–1.14) | 1.11 (0.82–1.52) | 0.76 (0.57–1.01) | 0.87 (0.66–1.15) |
| Educational level | | | | |
| University degree | 1.00 | 1.00 | 1.00 | 1.00 |
| Complete secondary | 1.15 (0.92–1.44) | 1.01 (0.78–1.30) | 1.01 (0.80–1.27) | 1.06 (0.85–1.32) |
| Complete elementary | 1.73 (0.98–3.04) | 0.93 (0.57–1.51) | 0.92 (0.58–1.46) | 0.81 (0.51–1.28) |
| Incomplete elementary | 1.62 (0.89–2.97) | 1.79 (1.08–2.94) * | 1.68 (1.02–2.77) * | 2.04 (1.21–3.44) † |
| Smoker | | | | |
| Never | 1.00 | 1.00 | 1.00 | 1.00 |
| Past | 1.26 (1.01–1.57) * | 1.79 (1.42–2.26) ‡ | 0.93 (0.74–1.16) | 1.15 (0.93–1.42) |
| Current | 2.08 (1.47–2.94) ‡ | 2.53 (1.80–3.56) ‡ | 1.77 (1.28–2.44) ‡ | 1.87 (1.36–2.57) ‡ |
| Physical activity | | | | |
| Insufficient | 1.00 | 1.00 | 1.00 | 1.00 |

| | | | | |
|--------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Moderate | 1.22 (0.95–1.55) | 1.36 (1.05–1.76) * | 0.85 (0.67–1.10) | 0.95 (0.75–1.21) |
| Vigorous | 1.03 (0.74–1.45) | 1.32 (0.89–1.98) | 1.27 (0.88–1.83) | 1.29 (0.91–1.84) |
| Family history of CVD | 1.37 (1.12–1.68) † | 1.18 (0.95–1.47) | 1.09 (0.88–1.33) | 1.15 (0.94–1.40) |
| Body mass index (kg/m ²) | 1.06 (1.03–1.10) ‡ | 1.06 (1.03–1.10) ‡ | 1.05 (1.02–1.09) ‡ | 1.06 (1.02–1.09) ‡ |
| Body surface (m ²) | 0.88 (0.69–1.13) | 0.98 (0.75–1.28) | 0.89 (0.69–1.14) | 0.92 (0.72–1.17) |
| Dyslipidemia | 1.20 (0.98–1.46) | 1.73 (1.40–2.15) ‡ | 1.29 (1.06–1.58) * | 1.51 (1.25–1.84) ‡ |
| Hypertension | 1.52 (1.24–1.88) ‡ | 1.62 (1.30–2.03) ‡ | 2.09 (1.71–2.57) ‡ | 1.96 (1.61–2.39) ‡ |
| Diabetes | 1.06 (0.80–1.42) | 1.34 (1.03–1.75) * | 1.33 (1.03–1.71) * | 1.45 (1.12–1.88) † |

Data are expressed as odds ratio (95% confidence interval). * $p \leq 0.05$; † $p \leq 0.01$; ‡ $p \leq 0.001$. AAC indicates aortic arch calcium; ATAC, ascending thoracic aortic calcium; CVD, cardiovascular disease; DTAC, descending thoracic aortic calcium; ADTAC, ascending plus descending thoracic aortic calcium.