**Table 2.** Difference in vessel width (μm) and tortuosity (%) associated with Type 2 diabetes and CVD risk factors and outcomes for individual factors in multivariable regression model age and sex adjusted

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Risk marker** | **Difference in arteriolar width (95% CI) μm** | **P-value** | **Difference in venular width (95% CI) μm** | **P-value** | **Difference in arteriolar tortuosity (95% CI) %** | **P-value** | **Difference in venular tortuosity (95% CI) %** | **P-value** |
| Per decade in age | -0.79 (-1.00, -0.58) | <0.001 | 2.56 (2.20, 2.91) | <0.001 | 5.44 (3.80, 7.11) | <0.001 | -0.23 (-1.15, 0.69) | 0.619 |
| Female vs male | -0.51 (-0.83, -0.19) | 0.002 | -0.32 (-0.86, 0.22) | 0.245 | 3.83 (1.37, 6.35) | 0.002 | 2.16 (0.74, 3.60) | 0.003 |
| Current vs never smoked | 2.13 (1.34, 2.91) | <0.001 | 3.03 (1.71, 4.34) | <0.001 | -2.70 (-8.22, 3.16) | 0.360 | 1.66 (-1.75, 5.18) | 0.345 |
| Former vs never smoked | 0.11 (-0.23, 0.44) | 0.522 | 0.31 (-0.25, 0.87) | 0.275 | -0.21 (-2.67, 2.31) | 0.870 | 0.88 (-0.58, 2.36) | 0.240 |
| Per 5 kg/m² in BMI | 0.15 (-0.03, 0.34) | 0.098 | 0.72 (0.41, 1.03) | <0.001 | -0.24 (-1.59, 1.13) | 0.729 | 2.52 (1.71, 3.34) | <0.001 |
| Per 10mmHg in SBP | -0.50 (-0.60, -0.41) | <0.001 | -0.06 (-0.23, 0.10) | 0.458 | 1.20 (0.47, 1.94) | 0.001 | 0.45 (0.02, 0.88) | 0.039 |
| Per 10mmHg in DBP | -1.04 (-1.22, -0.87) | <0.001 | -0.32 (-0.61, -0.02) | 0.035 | 0.75 (-0.56, 2.07) | 0.263 | -0.55 (-1.30, 0.21) | 0.157 |
| Per 1mmol/L in TC | -0.18 (-0.33, -0.02) | 0.024 | -0.16 (-0.41, 0.10) | 0.233 | 0.42 (-0.72, 1.58) | 0.472 | -0.52 (-1.18, 0.15) | 0.131 |
| Per 1mmol/L in LDL | -0.09 (-0.26, 0.08) | 0.313 | -0.24 (-0.53, 0.05) | 0.108 | 0.60 (-0.69, 1.90) | 0.362 | -0.39 (-1.14, 0.36) | 0.310 |
| Per 1mmol/L in HDL | -1.18 (-1.62, -0.74) | <0.001 | -1.42 (-2.16, -0.69) | <0.001 | -0.61 (-3.82, 2.70) | 0.714 | -1.83 (-3.70, 0.07) | 0.059 |
| Per 1mmol/L in Triglycerides | 0.06 (-0.12, 0.23) | 0.524 | 0.57 (0.27, 0.86) | <0.001 | 0.29 (-1.01, 1.62) | 0.661 | -0.18 (-0.94, 0.59) | 0.647 |
| Per % in HbA1c per | 0.22 (-0.08, 0.51) | 0.148 | 0.41 (-0.07, 0.90) | 0.097 | 0.95 (-1.21, 3.15) | 0.393 | 2.24 (0.96, 3.53) | 0.001 |
| Prevalent MI vs absent | 0.66 (-0.27, 1.58) | 0.165 | 1.20 (-0.35, 2.75) | 0.129 | 4.36 (-2.57, 11.77) | 0.224 | 1.87 (-2.14, 6.05) | 0.366 |
| Prevalent Stroke vs absent | 0.79 (-0.37, 1.95) | 0.181 | 0.59 (-1.35, 2.53) | 0.553 | 8.30 (-0.59, 17.99) | 0.068 | 3.66 (-1.42, 9.01) | 0.161 |
| Prevalent DM vs absent | -0.08 (-0.90, 0.75) | 0.857 | 0.48 (-0.90, 1.86) | 0.494 | 1.64 (-4.38, 8.03) | 0.602 | 6.53 (2.78, 10.41) | 0.001 |

Number included n=5,942. Regression coefficients are from a multilevel model allowing for repeated images from the same person (random effect for person) and adjusting for age and sex as fixed effects. Prevalent MI, stroke, DM (Diabetes Mellitus); n=187, 118, 238 respectively

Total Cholesterol (TC) missing data for 429 participants

LDL Cholesterol missing data for 511 participants

HDL Cholesterol missing data for 428 participants

Triglycerides missing data for 429 participants

HbA1c missing data for 498 participants