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| **Table 2.** Estimated relative differences in hemodynamic and vascular parameters, sympathetic activity and circulating biomarkers between exposure to diesel fumes and filtered air at different time points of the experiment by linear mixed model analysis | | | | | |
|  | Diesel vs Filtered Air | | | Interaction terms  (diesel vs filtered air\*time) | |
|  | Baseline (T0) | 2hours (T2) | 24hours (T24) | T0vsT2 | T0vsT24 |
|  | Coefficient (95% CIs) | Coefficient (95% CIs) | Coefficient (95% CIs) | Coefficient (95% CIs) | Coefficient (95% CIs) |
| FMD (%) | -0.06 (-0.89, 0.78) | -4.5 (-5.35, -3.66) \*\* | -5.75 (-6.59, -4.91) \*\* | -4.44 (-5.63, -3.26) \*\* | -5.69 (-6.88, -4.51) \*\* |
| EID (%) | -0.01 (-0.75, 0.73) | -0.23 (-0.97, 0.52) | 0.81 (0.06, 1.56) \* | -0.22(-1.27, 0.84) | 0.82 (-0.23, 1.87) |
| PWV (m/sec) | -0.05 (-0.22, 0.13) | 1.19 (1.01, 1.37) \*\* | 0.98 (0.8, 1.16) \*\* | 1.25 (0.99, 1.5) \*\* | 1.02 (0.78, 1.28) \*\* |
| AIx (%) | 0.15 (-1.25, 1.56) | 5.88 (4.46, 7.30) \*\* | 6.03 (4.66, 7.40)\*\* | 5.72 (3.73, 7,72) \*\* | 5.88 (3.94, 7.81)\*\* |
| SBP (mmHg) | 0.7 (-2.26, 3.66) | 3.35 (0.38, 6.31) \* | -0.97 (-3.94, 1.99) | 2.65 (-1.54, 6.84) | -1.67 (-5.86, 2.52) |
| DBP (mmHg) | 0.5 (-2.31, 3.31) | 3.02 (0.21, 5.84) \* | 3.67 (0.85, 6.49) \* | 2.52 (-1.45, 6.5) | 3.17 (-0.81, 7.15) |
| SDNN (ms) | -0.56 (-10.1, 8.98) | -19.9 (-29.5, -10.2) \*\* | -21.2 (-30.7, -11.7) \*\* | -19.3 (-32.8, -5.8) \* | -20.6 (-34.2, -7.17) \* |
| CRP (mg/L) | -0.01 (-0.31, 0.31) | 0.42 (0.11, 0.72) \* | 0.47 (0.16, 0.78) \* | 0.42 (-0.01, 0.86) \* | 0.48 (0.04, 0.91) \* |
| Fibrinogen (mg/dl) | 5.71 (-14.3, 25.7) | 60.1 (40.1, 80.2) \*\* | 46.0 (25.9, 66.1) \*\* | 54.4 (26.1, 82.8) \*\* | 40.3 (11.9, 68.7) \* |
| Protein C levels (%) | 2.23 (-2.36, 6.81) | -17.4 (-22, -12.8) \*\* | -12.3 (-16.9, -7.71) \*\* | -19.62 (-26.11, -13.13) \*\* | -14.52 (-21.02, -8.03) \*\* |
| Protein S activity (%) | 0.54 (-2.03, 3.12) | -11.4 (-14, -8.8) \*\* | -18.5 (-21.1, -16.0) \*\* | -11.9 (-15.6, -8.3) \*\* | -19 (-22.6, -15.4) \*\* |
| In each session, measurement was performed at baseline (before exposure-T0), at the end of the 2 hours session (T2) and 24 hours after the end of exposure (T24);  Estimated differences are derived from linear mixed model analysis with the following fixed terms (age, gender, smoking, BMI and SBP-only for vascular parameters) and two random terms (random intercept and slope)  \* indicates observed significance <0.05  \*\* indicates observed significance <0.001  FMD: Flow mediated dilation; EID: Endothelial independent dilation; PWV: Pulse wave velocity; AIx: Augmentation Index; SBP: Systolic Blood Pressure; DBP: Diastolic Blood Pressure; SDNN: standard deviation of normal to normal intervals; CRP: C reactive protein; APC: activated protein C; | | | | | |