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| **Table 1:** Impact of diesel exhaust fumes on studied parameters | | | | | | | | | |
|  | **Diesel exhaust Fumes Exposure** | | | |  | **Filtered Air Exposure** | | | |
| **Parameters** | **T0** | **T2** | **T24** | **p-value** |  | **T0** | **T2** | **T24** | **p-value** |
| FMD (%) | 11.97±4.61 | 7.71±3.36 | 6.17±3.19 | <0.001 |  | 12.01±4.28 | 12.10±3.94 | 11.73±6.65 | 0.67 |
| EID (%) | 15.11±3.12 | 15.40±3.36 | 15.41±3.75 | 0.36 |  | 14.13±3.45 | 15.63±3.62 | 14.59±3.75 | 0.13 |
| Basal BAD (cm) | 0.417±0.059 | 0.383±0.0572 | 0.356±0.0577 | <0.001 |  | 0.416±0.059 | 0.419±0.059 | 0.431±0.059 | 0.09 |
| PWV (m/sec) | 6.09±1.03 | 7.22±1.30 | 6.90±1.03 | <0.001 |  | 6.14±1.05 | 6.01±0.92 | 5.92±0.95 | 0.07 |
| AIx (%) | 8.50±13.89 | 13.73±12.38 | 14.44±13.65 | <0.001 |  | 8.35±13.36 | 7.86±12.65 | 8.41±12.63 | 0.93 |
| SBP (mmHg) | 121.92±12.99 | 125.25±15.90 | 120.12±15.28 | 0.06 |  | 121.22±12.91 | 121.90±13.20 | 121.10±13.16 | 0.62 |
| DBP (mmHg) | 73.25±9.20 | 74.90±8.63 | 72.57±10.21 | 0.29 |  | 72.75±9.40 | 71.87±11.34 | 68.90±9.08 | 0.12 |
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| SDNN (ms) | 63 (48, 82) | 70 (50, 92) | 57 (41, 72) | <0.001 |  | 62 (50, 83) | 80 (61, 103) | 76 (61, 91) | <0.001 |
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| CRP (mg/L) | 0.75 (1.41, 1.80) | 1.10 (0.70, 2.05) | 1.30 (0.65-2.45) | <0.001 |  | 0.90 (0.30, 1.40) | 1.05 (0.42, 1.90) | 1.15 (0.40, 1.77) | 0.15 |
| Fibrinogen (mg/dl) | 269±44 | 331±75 | 307±51 | <0.001 |  | 263±35 | 271±49 | 261±43 | 0.14 |
| Protein C levels (%) | 121±26 | 105±21 | 105±21 | <0.001 |  | 119±21 | 122±21 | 117±19 | 0.15 |
| Protein S activity (%) | 77±13 | 66±12 | 57±13 | <0.001 |  | 77±13 | 77±12 | 76±11 | 0.07 |
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| FMD: Flow mediated dilation; EID: Endothelial independent dilation; BAD: Brachial arterial diameter; 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;  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); | | | | | | | | | |