**Supplemental Table 1. Participant Demographics in the Full Dataset after Local Case Control Subsampling Adjustment for the Effect of Age**

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| --- | --- | --- |
|  | RawUnadjusted Dataset | Local Case Control SubsamplingAge Adjusted Dataset |
|  | Responders | Non-Responders | P1 | Responders | Non-Responders | P1 |
| Sample Size, N | 171 | 446 | --- | 118 | 115 | --- |
| Sex(% Female) | 37% | 49% | 0.01 | 42% | 42% | 1.00 |
| Age, yrs.(Mean, [SE]) | (14, [0.275]) | (14, [0.169]) | 0.752 | (14, [0.346]) | (14, [0.323]) | 0.372 |
| Body Mass Index | Obese | 63 | 142 | 0.28 | 47 | 39 | 0.42 |
| Non-Obese | 108 | 304 | 71 | 76 |
| Experiences of Discrimination | Yes | 97 | 208 | 0.03 | 65 | 49 | 0.08 |
| No | 74 | 238 | 53 | 66 |
| PSE | Yes | 33 | 86 | 1.00 | 21 | 19 | 0.93 |
| No | 138 | 360 | 97 | 96 |
| SES | > Low | 116 | 290 | 0.57 | 81 | 73 | 0.49 |
| Low | 55 | 156 | 37 | 42 |
| Air Pollution(NO2) | ≥ Median | 91 | 217 | 0.36 | 62 | 54 | 0.47 |
| < Median | 80 | 229 | 56 | 61 |
| Global African Ancestry | ≥ 80% | 116 | 269 | 0.10 | 82 | 67 | 0.10 |
| < 80% | 55 | 177 | 36 | 48 |

The Age Adjusted dataset was created by subsampling the Unadjusted ViSEN Dataset and extracting individuals whose BDR responder status was poorly modeled by age, effectively creating a subset of the data in which the effect of age was removed. All subsequent interaction analyses were carried out in the age adjusted dataset. Summary statistics for all phenotypic data included for analysis in this study are presented above. The Bonferroni method was used to correct for multiple testing (threshold for statistical significance: p-value ≤ 0.006). P-values that remained significant after correction for multiple testing are highlighted in bold. P-values represent the significance of the independent effects, or main effects, of specified variables on BDR responder status. 1p-values calculated from χ2Chi-squared Test of Independence unless otherwise indicated; 2p-values calculated from Wilcoxon Rank Sum test; PSE, Pre-natal Smoke Exposure; SES, Socioeconomic Status.