Supplementary Table 1. Linear Mixed Model

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| **Supplementary Table 1a. Overall sample** |
| ***Fixed effects using MLE*** |
|  | Coefficient | Standard Error | DF | t-value | p-value |
| (Intercept) | 2.70 | 0.338 | 9138 | 8.22 | <.001 |
| age | -0.03 | 0.002 | 9138 | -14.17 | <.001 |
| sbp | 0.002 | 0.002 | 9138 | 1.10 | 0.271 |
| dbp | 0.003 | 0.004 | 9138 | 0.79 | 0.428 |
| sbp\*dbp | -0.0003 | 0.00003 | 9138 | -1.01 | 0.311 |
| ***Random effects using REML***Formula: ~age | RESEARCHIDStructure: General positive-definite, Log-Cholesky parametrization |
|  | Standard Deviation | Correlation between random intercept and random slope of age |
| (Intercept) | 6.14 |  |
| age | 0.08 | -0.99 |
| Residual | 0.36 |  |
| **Supplementary Table 1b. Normotensive group** |
| ***Fixed effects using MLE*** |
|  | Coefficient | Standard Error | DF | t-value | p-value |
| (Intercept) | 2.70 | 0.433 | 6370 | 6.25 | <.001 |
| age | -0.03 | 0.003 | 6370 | -11.57 | <.001 |
| sbp | 0.003 | 0.003 | 6370 | 1.06 | 0.29 |
| dbp | 0.002 | 0.005 | 6370 | 0.38 | 0.71 |
| sbp\*dbp | -0.00002 | 0.00004 | 6370 | -0.60 | 0.55 |
| ***Random effects using REML***Formula: ~age | RESEARCHIDStructure: General positive-definite, Log-Cholesky parametrization |
|  | Standard Deviation | Correlation between random intercept and random slope of age |
| (Intercept) | 6.44 |  |
| age | 0.09 | -0.99 |
| Residual | 0.35 |  |
| **Supplementary Table 1c. Hypertensive group** |
| ***Fixed effects using MLE*** |
|  | Coefficient | Standard Error | DF | t-value | p-value |
| (Intercept) | 3.70 | 0.63 | 2388 | 5.88 | <.001 |
| age | -0.03 | 0.004 | 2388 | -7.85 | <.001 |
| sbp | -0.004 | 0.004 | 2388 | -1.08 | 0.282 |
| dbp | -0.007 | 0.007 | 2388 | -0.99 | 0.322 |
| sbp\*dbp | 0.00003 | 0.00005 | 2388 | 0.71 | 0.481 |
| ***Random effects using REML***Formula: ~age | RESEARCHIDStructure: General positive-definite, Log-Cholesky parametrization |
|  | Standard Deviation | Correlation between random intercept and random slope of age |
| (Intercept) | 0.21 |  |
| age | 0.01 | -0.42 |
| Residual | 0.42 |  |
| **Supplementary Table 1d. Hypotensive group** |
| ***Fixed effects using MLE*** |
|  | Coefficient | Standard Error | DF | t-value | p-value |
| (Intercept) | 2.77 | 1.33 | 372 | 2.08 | 0.038 |
| age | -0.04 | 0.008 | 372 | -5.09 | <.001 |
| sbp | 0.002 | 0.01 | 372 | 0.23 | 0.821 |
| dbp | 0.01 | 0.02 | 372 | 0.62 | 0.538 |
| sbp\*dbp | -0.00005 | 0.0001 | 372 | -0.37 | 0.714 |
| ***Random effects using REML***Formula: ~age | RESEARCHIDStructure: General positive-definite, Log-Cholesky parametrization |
|  | Standard Deviation | Correlation between random intercept and random slope of age |
| (Intercept) | 0.12 |  |
| age | 0.01 | -0.21 |
| Residual | 0.43 |  |