**Supplementary Table S1. Association between lipid profiles and factors influencing longevity.**

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| --- | --- | --- | --- |
| 　 | Model | Longevity family | Non-longevity family |
| Coefficient | Lower 95% | Upper 95% | *p*-value | Coefficient | Lower 95% | Upper 95% | *p*-value |
| SBP | Constant | 99.461  | 72.298  | 126.625  | 0.000  | 84.066  | 55.257  | 112.875  | 0.000  |
| Age | 0.483  | 0.336  | 0.631  | <0.0001\* | -1.594  | -5.864  | 2.676  | 0.463  |
| Sex | -1.441  | -7.099  | 4.218  | 0.617  | 0.491  | 0.341  | 0.641  | <0.0001\* |
| BMI | 0.559  | -0.286  | 1.404  | 0.194  | 1.266  | 0.371  | 2.162  | 0.006\* |
| Alcohol | 0.105  | -5.304  | 5.515  | 0.969  | -7.004  | -11.875  | -2.134  | 0.005\* |
| Smoking | -2.608  | -8.296  | 3.080  | 0.368  | -0.511  | -5.534  | 4.511  | 0.841  |
| APOE2+ | -1.851  | -9.078  | 5.375  | 0.615  | 3.581  | -2.987  | 10.149  | 0.284  |
| APOE4+ | -0.420  | -6.535  | 5.695  | 0.893  | 3.595  | -1.820  | 9.011  | 0.192  |
| DBP | Constant | 77.419  | 62.868  | 91.971  | 0.000  | 63.431  | 45.807  | 81.055  | 0.000  |
| Age | 0.080  | 0.001  | 0.159  | 0.047\* | 0.112  | 0.020  | 0.204  | 0.017\* |
| Sex | -3.431  | -6.463  | -0.400  | 0.027\* | -1.618  | -4.230  | 0.994  | 0.224  |
| BMI | 0.101  | -0.352  | 0.553  | 0.662  | 0.728  | 0.180  | 1.276  | 0.009\* |
| Alcohol | 0.708  | -2.190  | 3.606  | 0.631  | -3.147  | -6.126  | -0.167  | 0.039\* |
| Smoking | 0.013  | -3.034  | 3.061  | 0.993  | -0.135  | -3.208  | 2.937  | 0.931  |
| APOE2+ | -1.287  | -5.158  | 2.585  | 0.514  | 0.478  | -3.540  | 4.497  | 0.815  |
| APOE4+ | -1.226  | -4.502  | 2.050  | 0.462  | 0.494  | -2.819  | 3.807  | 0.769  |
| Glucose | Constant | 3.916  | 1.925  | 5.908  | 0.000  | 3.218  | 1.023  | 5.413  | 0.004  |
| Age | 0.008  | -0.003  | 0.019  | 0.155  | 0.031  | 0.020  | 0.042  | <0.0001\* |
| Sex | -0.251  | -0.666  | 0.164  | 0.234  | -0.161  | -0.486  | 0.164  | 0.331  |
| BMI | 0.080  | 0.018  | 0.142  | 0.012\* | 0.015  | -0.053  | 0.083  | 0.663  |
| Alcohol | 0.110  | -0.286  | 0.507  | 0.584  | -0.139  | -0.510  | 0.232  | 0.461  |
| Smoking | -0.315  | -0.732  | 0.102  | 0.138  | 0.121  | -0.262  | 0.504  | 0.535  |
| APOE2+ | 0.170  | -0.360  | 0.699  | 0.529  | 0.331  | -0.169  | 0.832  | 0.193  |
| APOE4+ | 0.304  | -0.145  | 0.752  | 0.184  | 0.234  | -0.179  | 0.647  | 0.265  |
| TC | Constant | 3.751  | 2.497  | 5.004  | 0.000  | 2.629  | 1.155  | 4.103  | 0.001  |
| Age | 0.007  | 0.000  | 0.014  | 0.043\* | 0.002  | -0.006  | 0.010  | 0.605  |
| Sex | 0.097  | -0.164  | 0.358  | 0.464  | 0.253  | 0.035  | 0.472  | 0.023\* |
| BMI | 0.011  | -0.028  | 0.050  | 0.586  | 0.082  | 0.036  | 0.127  | 0.001\* |
| Alcohol | 0.081  | -0.169  | 0.330  | 0.525  | -0.156  | -0.405  | 0.094  | 0.220  |
| Smoking | 0.150  | -0.113  | 0.412  | 0.263  | 0.129  | -0.128  | 0.386  | 0.324  |
| APOE2+ | -0.356  | -0.689  | -0.022  | 0.037\* | -0.279  | -0.615  | 0.058  | 0.104  |
| APOE4+ | 0.084  | -0.198  | 0.367  | 0.557  | -0.067  | -0.344  | 0.210  | 0.634  |
| HDL-C | Constant | 0.140  | -0.911  | 1.190  | 0.794  | 1.337  | 0.847  | 1.827  | 0.000  |
| Age | 0.008  | 0.002  | 0.014  | 0.006\* | -0.003  | -0.006  | -0.001  | 0.012\* |
| Sex | 0.177  | -0.042  | 0.396  | 0.112  | 0.055  | -0.018  | 0.127  | 0.139  |
| BMI | 0.030  | -0.002  | 0.063  | 0.069  | 0.000  | -0.016  | 0.015  | 0.961  |
| Alcohol | 0.209  | 0.000  | 0.418  | 0.050  | -0.057  | -0.139  | 0.026  | 0.180  |
| Smoking | -0.202  | -0.422  | 0.018  | 0.072  | 0.000  | -0.086  | 0.085  | 0.991  |
| APOE2+ | -0.046  | -0.325  | 0.234  | 0.748  | -0.059  | -0.171  | 0.053  | 0.299  |
| APOE4+ | 0.003  | -0.233  | 0.240  | 0.978  | -0.034  | -0.126  | 0.058  | 0.465  |
| LDL-C | Constant | 2.026  | 1.030  | 3.021  | 0.000  | 0.570  | -0.677  | 1.817  | 0.369  |
| Age | 0.002  | -0.003  | 0.007  | 0.459  | 0.007  | 0.001  | 0.013  | 0.048\* |
| Sex | 0.190  | -0.017  | 0.398  | 0.072  | 0.299  | 0.114  | 0.483  | 0.002\* |
| BMI | 0.000  | -0.031  | 0.031  | 0.989  | 0.055  | 0.016  | 0.093  | 0.006\* |
| Alcohol | 0.026  | -0.172  | 0.224  | 0.797  | 0.029  | -0.182  | 0.239  | 0.790  |
| Smoking | 0.179  | -0.029  | 0.388  | 0.092  | 0.222  | 0.005  | 0.440  | 0.045\* |
| APOE2+ | -0.256  | -0.521  | 0.008  | 0.058  | -0.176  | -0.460  | 0.109  | 0.225  |
| APOE4+ | 0.016  | -0.209  | 0.240  | 0.891  | -0.103  | -0.337  | 0.132  | 0.389  |
| TG | Constant | 0.582  | -1.349  | 2.513  | 0.554  | 1.032  | -0.938  | 3.001  | 0.303  |
| Age | -0.004  | -0.014  | 0.007  | 0.460  | 0.000  | -0.010  | 0.011  | 0.958  |
| Sex | -0.322  | -0.724  | 0.081  | 0.117  | -0.261  | -0.553  | 0.031  | 0.079  |
| BMI | 0.104  | 0.044  | 0.164  | 0.001\* | 0.067  | 0.006  | 0.129  | 0.031\* |
| Alcohol | -0.326  | -0.711  | 0.058  | 0.096  | -0.227  | -0.560  | 0.106  | 0.181  |
| Smoking | 0.076  | -0.328  | 0.481  | 0.711  | -0.067  | -0.410  | 0.276  | 0.701  |
| APOE2+ | 0.223  | -0.291  | 0.737  | 0.394  | -0.080  | -0.529  | 0.369  | 0.726  |
| APOE4+ | 0.024  | -0.411  | 0.459  | 0.914  | 0.136  | -0.234  | 0.507  | 0.469  |
| C-index 1 | Constant | 3.720  | 1.662  | 5.778  | 0.000  | 1.437  | -2.874  | 5.749  | 0.512  |
| Age | -0.010  | -0.021  | 0.001  | 0.081  | 0.014  | -0.008  | 0.037  | 0.209  |
| Sex | -0.385  | -0.813  | 0.044  | 0.079  | 0.070  | -0.569  | 0.709  | 0.829  |
| BMI | 0.026  | -0.038  | 0.090  | 0.428  | 0.110  | -0.024  | 0.244  | 0.106  |
| Alcohol | -0.191  | -0.601  | 0.219  | 0.359  | -0.338  | -1.067  | 0.391  | 0.362  |
| Smoking | 0.656  | 0.225  | 1.087  | 0.003\* | 0.151  | -0.601  | 0.903  | 0.693  |
| APOE2+ | -0.043  | -0.590  | 0.505  | 0.879  | -0.106  | -1.089  | 0.877  | 0.831  |
| APOE4+ | 0.007  | -0.457  | 0.470  | 0.977  | 0.888  | 0.077  | 1.698  | 0.032\* |
| C-index 2 | Constant | 1.698  | 0.273  | 3.123  | 0.020  | -0.048  | -2.407  | 2.311  | 0.968  |
| Age | -0.007  | -0.015  | 0.001  | 0.078  | 0.013  | 0.001  | 0.025  | 0.038\* |
| Sex | -0.068  | -0.365  | 0.228  | 0.650  | 0.192  | -0.158  | 0.541  | 0.282  |
| BMI | 0.017  | -0.027  | 0.061  | 0.448  | 0.067  | -0.006  | 0.140  | 0.073  |
| Alcohol | 0.056  | -0.228  | 0.340  | 0.699  | -0.043  | -0.442  | 0.356  | 0.833  |
| Smoking | 0.378  | 0.079  | 0.676  | 0.013\* | 0.213  | -0.198  | 0.624  | 0.309  |
| APOE2+ | -0.114  | -0.493  | 0.265  | 0.554  | -0.085  | -0.623  | 0.453  | 0.756  |
| APOE4+ | -0.042  | -0.363  | 0.279  | 0.798  | 0.420  | -0.024  | 0.863  | 0.064  |

Note: Unstandardized coefficients and P-values were acquired by using linear regression model. \*Statistically Significant.