**Table 4: The association between choice reaction time at age 16 with the Hospital Anxiety and Depression Scale Depression subscale score at age 36 (unadjusted and adjusted models)**

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| --- | --- | --- | --- |
| **Models** | **Regression coefficient (95% confidence interval)** | **P value** | **Adjusted R2** |
| *Model 1* |  |  |  |
| Choice reaction time, per SDa | 0.097 (0.032, 0.163) | .004 | 0.011 |
|  |  |  |  |
| *Model 2* |  |  |  |
| Choice reaction time, per SDa | 0.064 (-0.003, 0.130) | .062 | 0.043 |
| Female sex | 0.011 (-0.122, 0.143) | .88 |  |
| Logged GHQ score at age 16 | 0.213 (0.043, 0.383) | .014 |  |
| Parental social class b |  |  |  |
| Professional | Reference |  |  |
| Managerial/technical | 0.173 (-0.076, 0.422) | .17 |  |
| Skilled non-manual | 0.140 (-0.138, 0.419) | .32 |  |
| Skilled manual | 0.219 (-0.027, 0.465) | .081 |  |
| Semi-skilled | 0.293 (0.008, 0.579) | .044 |  |
| Unskilled | 0.082 (-0.264, 0.429) | .64 |  |
| Years of full-time education | -0.031 (-0.054, -0.007) | .010 |  |
|  |  |  |  |
| *Model 3* |  |  |  |
| Choice reaction time, per SDa | 0.053 (-0.013, 0.119) | .11 | 0.099 |
| Female sex | -0.042 (-0.175, 0.091) | .54 |  |
| Logged GHQ score at age 16 | 0.240 (0.072, 0.407) | .005 |  |
| Parental social class b |  |  |  |
| Professional | Reference |  |  |
| Managerial/technical | 0.170 (-0.075, 0.414) | .17 |  |
| Skilled non-manual | 0.111 (-0.162, 0.384) | .43 |  |
| Skilled manual | 0.153 (-0.89, 0.395) | .22 |  |
| Semi-skilled | 0.225 (-0.056, 0.505) | .12 |  |
| Unskilled | 0.028 (-0.312, 0.368) | .87 |  |
| Years of full-time education | -0.020 (-0.043, 0.003) | .083 |  |
| Smoking status |  |  |  |
| Never smoker | Reference |  |  |
| Ex-smoker | -0.123 (-0.284, 0.039) | .14 |  |
| Current smoker | 0.143 (-0.017, 0.303) | .080 |  |
| Alcohol units per week |  |  |  |
| None | 0.277 (0.123, 0.432) | <.001 |  |
| ≤14 (women)/≤21 (men) | Reference |  |  |
| ≥15 (women)/≥22 (men | -0.0198 (-0.189, 0.149) | .82 |  |
| Exercise (brisk walking), days per week | -0.064 (-0.091, -0.036) | <.001 |  |
|  |  |  |  |
| *Model 4* |  |  |  |
| Choice reaction time, per SDa | 0.046 (-0.020, 0.111) | .17 | 0.091 |
| Female sex | -0.001 (-0.135, 0.134) | .99 |  |
| Logged GHQ score age 16 | 0.239 (0.072, 0.405) | .005 |  |
| Parental social class b |  |  |  |
| Professional | Reference |  |  |
| Managerial/technical | 0.150 (-0.093, 0.393) | .22 |  |
| Skilled non-manual | 0.107 (-0.164, 0.378) | .44 |  |
| Skilled manual | 0.133 (-0.108, 0.373) | .28 |  |
| Semi-skilled | 0.188 (-0.092, 0.468) | .19 |  |
| Unskilled | -0.018 (-0.092, 0.467) | .92 |  |
| Years of full-time education | -0.017 (-0.040, 0.006) | .16 |  |
| Allostatic load score | 0.025 (0.009, 0.041) | .002 |  |
| Smoking status |  |  |  |
| Non smoker | Reference |  |  |
| Ex-smoker | -0.131 (-0.292, 0.030) | .11 |  |
| Current smoker | 0.149 (0.010, 0.309) | .070 |  |
| Alcohol units per week |  |  |  |
| None | 0.259 (0.106, 0.413) | .001 |  |
| ≤14 (women)/≤21 (men) | Reference |  |  |
| ≥15 (women)/≥22 (men | -0.045 (-0.214, 0.124) | .60 |  |
| Exercise (brisk walking), days a week | -0.061 (-0.088, -0.034) | <.001 |  |

aData presented are unstandardized regression coefficients indicating the association between one SD increment in choice reaction time and the square root transformed HADS depression score. bThe numbers in each category of parental social class are as follows: professional 71, managerial/technical 157, skilled non-manual 96, skilled manual 242, semi-skilled 96, unskilled 43.