1.

NTFM fit Indices for non-aggressive rule-breaking (RB), separately by level of neighbor joblessness

Model -2lnL df χ² (df) AIC BIC SABIC DIC

**Joblessness in neighbors within 5000m of the twins**

Lower neighbor joblessness

ASFE model 3790.38 1398 -- 994.38 -2341.77 -123.56 -1057.10

ASE model 3798.05 1399 7.67 (1)\* 1000.05 -2340.97 -121.17 -1055.37

**AFE model 3791.88 1399 1.50 (1) 993.88 -2344.05 -124.25 -1058.45**

AE model 3828.05 1400 27.67 (2)\* 1028.05 -2329.00 -107.62 -1042.48

Higher neighbor joblessness

ASFE model 3696.17 1264 -- 1168.17 -1943.24 62.16 -781.71

**ASE model 3699.09 1265 2.92 (1) 1169.09 -1944.78 62.21 -782.32**

AFE model 3704.64 1265 8.47 (1)\* 1174.64 -1942.01 64.98 -779.55

AE model 3739.13 1266 42.96 (2)\* 1207.13 -1927.76 80.81 -764.39

*Note.* Additive genetic, environmental influences shared between siblings, family environmental influences, and non-shared environmental influences are represented with A, S, F and E, respectively. χ² indicates the change in chi-square relative to the full ASFE model (\* indicates a significant change at p<.05). The best fitting model for a given set of analyses is highlighted in bond font, and is indicated by a non-significant change in chi-square relative to the linear ACE moderation model and/or the lowest or most negative AIC (Akaike’s Information Criterion), BIC (Bayesian Information Criterion), SABIC (sample size adjusted Bayesian Information Criterion), and DIC (Deviance Information Criterion) values for at least 3 of the 5 fit indices.

Supplementary Table 2.

Unstandardized nuclear twin family design heritability estimates for child RB, separately by level of neighbor joblessness.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Joblessness in Neighbors | Model | A | S | F | Passive rGE | E |
| Lower | ASFE | **.67\*** | .10 | **.09\*** | **-.17\*** | **.35\*** |
| AFE | **.86\*a** | --- | **.16\*** | **-.25\*** | **.34\*** |
| Higher | ASFE | **.57\*** | **.32\*** | .04 | -.09 | **.38\*** |
| ASE | **.27\*a** | **.45\*** | --- | --- | **.45\*** |

Note. RB refers to non-aggressive antisocial behavior. Additive genetic, environmental influences shared between siblings, family environmental influences, and non-shared environmental influences are represented with A, S, F and E, respectively. \* indicates that the parameter is significantly greater than zero at p<.05.The same lowercase letter indicates that the estimated parameters differ significantly from one another at p<.05.