Causal Claims Tables

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# Summary Statistics Table

Table :**Summary Statistics for NLSY Variables** Physical Health scale ranges from 10 to 70. Depression measure from CES-D, ranging from 0 to 24; Neuroticism and Conscientiousness dervied from TIPI, ranging from 1 to 7; Education represents highest grade completed, ranging from 0 (none) to 20 (eight years of college or more); Income represents total net family income in 2014 dollars

| **Variable** | **Mean** | **Standard Deviation** | **Minimum** | **25th Percentile** | **50th Percentile** | **75th Percentile** | **Maximum** | **Number of Observations** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Physical Healthi | 51.99 | 8.08 | 11.22 | 51.26 | 54.84 | 56.51 | 68.37 | 8,402 |
| Physical Healthii | 49.09 | 10.29 | 11.22 | 46.67 | 53.55 | 55.50 | 67.31 | 7,804 |
| Depressionii | 3.88 | 4.51 | 0.00 | 0.00 | 2.00 | 6.00 | 21.00 | 7,813 |
| Neuroticism | 2.90 | 1.39 | 1.00 | 2.00 | 3.00 | 4.00 | 7.00 | 6,969 |
| Conscientousness | 5.73 | 1.32 | 1.00 | 5.00 | 6.00 | 7.00 | 7.00 | 6,966 |
| Educationii | 13.33 | 2.57 | 0.00 | 12.00 | 12.00 | 15.00 | 20.00 | 7,693 |
| Incomeii | 68,487.81 | 85,978.38 | -3.26 | 11,342.18 | 47,000.00 | 94,861.85 | 595,986.00 | 7,693 |
| iAs measured at age 40 | | | | | | | | |
| iiAs measured at age 50 | | | | | | | | |

## Does Conscientiousness Causally Influence Physical Health (At Age 50)?

| Characteristic | Beta | T-Statistic | 95% CI1 | P-Value |
| --- | --- | --- | --- | --- |
| age\_50\_physical\_health\_mean | -0.85 | -39.5 | -0.90, -0.81 | <0.001 |
| conscientousness\_diff | 0.01 | 1.26 | -0.01, 0.04 | 0.2 |
| conscientousness\_mean | 0.05 | 2.46 | 0.01, 0.09 | 0.014 |
| sex\_1 | -0.02 | -0.516 | -0.08, 0.05 | 0.6 |
| race\_1 | -0.03 | -1.34 | -0.07, 0.01 | 0.2 |
| sex\_2 | 0.07 | 2.12 | 0.01, 0.13 | 0.034 |
| 1CI = Confidence Interval | | | | |
| R² = 0.453; Adjusted R² = 0.452; Sigma = 0.693; Statistic = 271; p-value = <0.001; df = 6; Log-likelihood = -2,067; AIC = 4,149; BIC = 4,194; Deviance = 942; Residual df = 1,960; No. Obs. = 1,967 | | | | |

## Does Conscientiousness Causally Influence Mental Health (Depression)?

| Characteristic | Beta | T-Statistic | 95% CI1 | P-Value |
| --- | --- | --- | --- | --- |
| depression\_mean | 0.83 | 40.2 | 0.79, 0.87 | <0.001 |
| conscientousness\_diff | -0.02 | -2.10 | -0.04, 0.00 | 0.036 |
| conscientousness\_mean | 0.04 | 2.08 | 0.00, 0.08 | 0.038 |
| sex\_1 | 0.04 | 1.39 | -0.02, 0.10 | 0.2 |
| race\_1 | -0.08 | -3.93 | -0.12, -0.04 | <0.001 |
| sex\_2 | -0.07 | -2.17 | -0.12, -0.01 | 0.030 |
| 1CI = Confidence Interval | | | | |
| R² = 0.462; Adjusted R² = 0.460; Sigma = 0.672; Statistic = 292; p-value = <0.001; df = 6; Log-likelihood = -2,092; AIC = 4,200; BIC = 4,245; Deviance = 924; Residual df = 2,043; No. Obs. = 2,050 | | | | |

## Does Conscientiousness Causally Influence Mental Health (Depression) with Income and Highest Grade Level (At Age 50) as Covariates?

| Characteristic | Beta | T-Statistic | 95% CI1 | P-Value |
| --- | --- | --- | --- | --- |
| depression\_mean | 0.82 | 22.0 | 0.75, 0.89 | <0.001 |
| conscientousness\_diff | -0.02 | -1.03 | -0.06, 0.02 | 0.3 |
| highest\_grade\_at\_age\_50\_diff | 0.00 | 0.391 | -0.02, 0.02 | 0.7 |
| tnfi\_at\_age\_50\_diff | 0.00 | -0.209 | 0.00, 0.00 | 0.8 |
| conscientousness\_mean | 0.00 | 0.065 | -0.07, 0.07 | >0.9 |
| highest\_grade\_at\_age\_50\_mean | 0.00 | 0.126 | -0.02, 0.03 | 0.9 |
| tnfi\_at\_age\_50\_mean | 0.00 | 0.531 | 0.00, 0.00 | 0.6 |
| sex\_1 | 0.10 | 2.08 | 0.01, 0.20 | 0.038 |
| race\_1 | -0.04 | -1.07 | -0.10, 0.03 | 0.3 |
| sex\_2 | -0.04 | -0.841 | -0.14, 0.06 | 0.4 |
| 1CI = Confidence Interval | | | | |
| R² = 0.460; Adjusted R² = 0.452; Sigma = 0.617; Statistic = 56.6; p-value = <0.001; df = 10; Log-likelihood = -627; AIC = 1,277; BIC = 1,332; Deviance = 253; Residual df = 665; No. Obs. = 676 | | | | |

## Does Neuroticism Causally Influence Mental Health (Depression)?

| Characteristic | Beta | T-Statistic | 95% CI1 | P-Value |
| --- | --- | --- | --- | --- |
| depression\_mean | 0.83 | 39.1 | 0.79, 0.87 | <0.001 |
| neuroticism\_diff | 0.05 | 4.43 | 0.03, 0.07 | <0.001 |
| neuroticism\_mean | -0.03 | -1.47 | -0.07, 0.01 | 0.14 |
| sex\_1 | 0.03 | 1.02 | -0.03, 0.09 | 0.3 |
| race\_1 | -0.08 | -3.94 | -0.12, -0.04 | <0.001 |
| sex\_2 | -0.05 | -1.83 | -0.11, 0.00 | 0.068 |
| 1CI = Confidence Interval | | | | |
| R² = 0.465; Adjusted R² = 0.463; Sigma = 0.671; Statistic = 295; p-value = <0.001; df = 6; Log-likelihood = -2,083; AIC = 4,183; BIC = 4,228; Deviance = 918; Residual df = 2,039; No. Obs. = 2,046 | | | | |