Supplementary Materials 2: Best Subset Selection models Whole sample

|  |  |  |  |
| --- | --- | --- | --- |
| **Predictors** | **LL** | **AIC** | **BIC** |
| Combat experiences N; | -5282.39 | 10572.79 | 10598.8 |
| **Combat experiences N; Alcohol consumption;** | **-5267.76** | **10547.52** | **10586.53** |
| Combat experiences N; Alcohol consumption; Years since last deployment | -5261.51 | 10539.01 | 10591.03 |
| Combat experiences N; Life events; Alcohol consumption; Years since last deployment | -5255.37 | 10530.75 | 10595.77 |
| Combat experiences N; Smoking; Life events; Alcohol consumption; Years since last deployment | -5252.75 | 10529.5 | 10607.52 |
| Combat experiences N; Smoking; Life events; Alcohol consumption; Adverse Childhood Events (4+ events); Years since last deployment | -5250.88 | 10529.76 | 10620.79 |
| Combat experiences N; Smoking; Life events; Alcohol consumption; Adverse Childhood Events (<4 events) Adverse Childhood Events (4+ events); Years since last deployment | -5249.61 | 10531.21 | 10635.24 |
| Relationship status; Combat experiences N; Smoking; Life events; Alcohol consumption; Adverse Childhood Events (<4 events); Adverse Childhood Events (4+ events); Years since last deployment | -5249.28 | 10534.57 | 10651.6 |
| *Optimal model in* ***bold*** | | | |

Best Subset Selection Males only

|  |  |  |  |
| --- | --- | --- | --- |
| **Predictors** | **LL** | **AIC** | **BIC** |
| Combat experiences N; | -4690.06 | 9388.116 | 9413.655 |
| **Combat experiences N; Alcohol consumption;** | **-4680** | **9371.996** | **9410.304** |
| Combat experiences N; Alcohol consumption; Years since last deployment | -4672.87 | 9361.735 | 9412.812 |
| Combat experiences N; Life events; Alcohol consumption; Years since last deployment | -4668.03 | 9356.05 | 9419.896 |
| Combat experiences N; Smoking; Life events; Alcohol consumption; Years since last deployment | -4665.01 | 9354.011 | 9430.626 |
| Combat experiences N; Smoking; Life events; Alcohol consumption; Adverse Childhood Events (4+ events); Years since last deployment | -4663.83 | 9355.654 | 9445.038 |
| Combat experiences N; Smoking; Life events; Alcohol consumption; Adverse Childhood Events (<4 events) Adverse Childhood Events (4+ events); Years since last deployment | -4662.3 | 9356.604 | 9458.757 |
| Relationship status; Combat experiences N; Smoking; Life events; Alcohol consumption; Adverse Childhood Events (<4 events); Adverse Childhood Events (4+ events); Years since last deployment | -4661.87 | 9359.731 | 9474.653 |
| *Optimal model in* ***bold*** |  |  |  |

Best Subset Selection Females only

|  |  |  |  |
| --- | --- | --- | --- |
| Predictors | LL | AIC | BIC |
| **Recent Life Events** | **-597.478** | **1202.957** | **1220.182** |
| Recent Life Events; Alcohol Consumption | -595.119 | 1202.237 | 1228.075 |
| Recent Life Events; Adverse Childhood Events (4+); Alcohol Consumption | -594.312 | 1204.625 | 1239.075 |
| Recent Life Events; Adverse Childhood Events (<4); Adverse Childhood Events (4+); Alcohol Consumption | -592.816 | 1205.632 | 1248.695 |
| Recent Life Events; Adverse Childhood Events (<4); Adverse Childhood Events (4+); Alcohol Consumption; Years Since Last Deployment | -592.551 | 1209.102 | 1260.777 |
| *Optimal model in* ***bold*** | | | |