**Supplementary Material**

**Supplementary Table 1.** Means, standard deviations, Cronbach's alphas, and correlations among continuous study measures

**Supplementary Table 2.** Mixed-effect growth models of problematic anger in a subsample of soldiers with no pre-deployment history of mental disorders(n=4211)

**Supplementary Figure 1.** Predicted values of anger trajectories by prior combat deployment history among soldiers with no pre-deployment history of mental disorders

**Supplementary Figure 2.** Predicted values of anger trajectories by resilience among soldiers with no pre-deployment history of mental disorders

**Supplementary Table 1.** Means, standard deviations, Cronbach's alphas, and correlations among continuous study measures

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Mean** | **SD** | 1 | 2 | 3 | 4 |
| 1. Resilience (T0)
 | 3.99 | .84 | (.89) |  |  |  |
| 1. Anger (T0)
 | 1.70 | .79 | -.34 | (.88) |  |  |
| 1. Anger (T2)
 | 1.76 | .88 | -.16 | .41 | (.89) |  |
| 1. Anger (T3)
 | 1.85 | .97 | -.15 | .36 | .50 | (.92) |

*Note.* Cronbach's Alpha reported on diagonal

**Supplementary Table 2**

Mixed-effect growth models of problematic anger in a subsample of soldiers with no pre-deployment history of mental disorders (n=4211)

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Model 1** | **Model 2** | **Model 3** |
|  | *Est* | *SE* | *Est* | *SE* | *Est* | *SE* |
| Intercept | 0.91\*\* | 0.09 | 0.91\*\* | 0.10 | 0.90\*\* | 0.11 |
| Malea | 0.04 | 0.04 | 0.03 | 0.04 | 0.03 | 0.04 |
| Age | -0.01\*\* | 0.00 | -0.01\*\* | 0.00 | -0.01\*\* | 0.00 |
| Non-Whiteb | -0.04\* | 0.02 | -0.05\* | 0.02 | -0.05\* | 0.02 |
| Education |  |  |  |  |  |  |
|  College vs. High School | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
|  Graduate School vs. High School | 0.02 | 0.07 | 0.03 | 0.07 | 0.03 | 0.07 |
| Marital Status |  |  |  |  |  |  |
|  Single vs. Married | -0.03 | 0.03 | -0.03 | 0.03 | -0.03 | 0.03 |
|  Other vs. Married | 0.03 | 0.04 | 0.03 | 0.04 | 0.03 | 0.04 |
|  |  |  |  |  |  |  |
| TIME | 0.02\*\* | 0.00 | -0.01 | 0.01 | -0.01 | 0.01 |
|  |  |  |  |  |  |  |
| Prior Combat Deployment History |  |  |  |  |  |  |
|  1 Deployment vs. 0 Deployments | 0.13\*\* | 0.03 | 0.28 | 0.15 | 0.34\* | 0.17 |
|  2+ Deployments vs 0 Deployments | 0.17\*\* | 0.03 | 0.63\*\* | 0.16 | 0.57\*\* | 0.17 |
| Resilience | -0.21\*\* | 0.01 | -0.21\*\* | 0.02 | -0.21\*\* | 0.02 |
|  |  |  |  |  |  |  |
| TIME \* 1 Deployment |  |  | -0.01\* | 0.00 | 0.03 | 0.02 |
| TIME \* 2+ Deployments |  |  | -0.01\*\* | 0.00 | 0.00 | 0.02 |
| TIME \* Resilience |  |  | 0.01\*\* | 0.00 | 0.01\*\* | 0.00 |
|  |  |  |  |  |  |  |
| 1 Deployment \* Resilience |  |  | -0.03 | 0.04 | -0.05 | 0.04 |
| 2+ Deployments \* Resilience |  |  | -0.10\*\* | 0.04 | -0.08\* | 0.04 |
|  |  |  |  |  |  |  |
| TIME \* 1 Deployment \* Resilience |  |  |  |  | 0.00 | 0.00 |
| TIME \* 2+ Deployments \* Resilience |  |  |  |  | 0.00 | 0.00 |
|  |  |  |  |  |  |  |
| Variance Components |  |  |  |  |  |  |
| Intercept | .04 | .21 | .04 | .21 | .04 | .21 |
| TIME | .00 | .05 | .00 | .05 | .00 | .05 |
| Residual | .53 | .72 | .52 | .72 | .52 | .72 |
|  |  |  |  |  |  |  |
| Loglikelihoodc | -12083.11 | -12061.82 | -12060.64 |
| -2LLRc |  |  | 42.57\*\* | 2.37 |

*Note*. Anger is standardized. aMale is dummy coded (0=Female, 1=Male). bNon-White was dummy coded (0=White, 1=Non-White). cLoglikelihood values calculated from models using maximum likelihood to allow for -2 Loglikelihood Ratio test across models with differing fixed-effects (Pinheiro & Bates, 1999)

**Supplementary Figure 1.** Predicted values of anger trajectories by prior combat deployment history among soldiers with no pre-deployment history of mental disorders.

**Supplementary Figure 2**. Predicted values of anger trajectories by resilience among soldiers with no pre-deployment history of mental disorders. Low resilience is defined as 1 SD below the mean and high resilience is defined as 1SD above the mean resilience score for the subsample with no pre-deployment mental disorders.