

**Supplemental Material for:**

Borderline personality disorder: Stress reactivity or stress generation?

A prospective dimensional study

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Table S1. *Items used in Independent and Dependent Life Events Scales.*

<u>Item</u>	<u>Scale</u>
1. Experienced troubles at work? <sup>a</sup>	Dependent
2. Experience being fired from work?	Dependent
3. Experienced a separation from spouse due to marital problems?	Dependent
4. Experienced a divorce?	Dependent
5. Experienced a minor violation of the law?	Dependent
6. Experienced legal troubles resulting in your being held in jail?	Dependent
7. Experienced a “falling out” of a close personal relationship?	Dependent
8. Experienced girlfriend or boyfriend problems?	Dependent
9. Experienced a loss or damage of personal property?	Dependent
10. Experienced decreased income, resulting in a major change in finances?	Dependent
11. Experienced an illness or injury which kept you in bed a week or more, or took you to the hospital?	Independent
12. Experienced a major change in the health or behavior of a family member (illnesses, accidents, drug/disciplinary problems, etc.)?	Independent
13. Experienced the death of a spouse?	Independent
14. Experienced the death of a child, brother/sister, parent, or close family member? <sup>b</sup>	Independent
15. Experienced the death of a close friend?	Independent

<sup>a</sup> This is a composite item we created based on a series of items pertaining to this topic.

Participants were given a score of 1 on this item if they indicated they had experienced troubles with their boss, co-workers, or persons under their supervision, or if they had experienced “other” troubles at work.

<sup>b</sup> This is a composite item we created based on a series of items pertaining to this topic.

Participants were given a score of 1 on this item if they indicated they had experienced the death of a child, parent, brother/sister, or other close family member.

### **Recent Life Changes Questionnaire Scoring Notes**

At baseline, participants were asked whether they had experienced each item during several timeframes, including the last 0-6 and 6-12 months. Given that the trait constructs were assessed annually, we aggregated responses from these two timeframes. Participants were given a score of 0 if they did not experience the event in the last 12 months at all, a score of 1 if they experienced the event either 0-6 or 6-12 months ago, and a score of 2 if they experienced the event 0-6 months or 6-12 months ago.

At follow-up, participants were once again asked whether they had experienced each item during several timeframes, including the last 0-3, 4-6, 7-9, and 10-12 months. First, responses were first collapsed into 6 months periods to match the baseline response format (subjects were given a score of 1 if they reported an event 0-3 months ago or 4-6 months ago). Consistent with our treatment of the baseline assessments, we aggregated responses across the 0-6- and 6-12-month time windows. Participants were given a score of 0 if they did not experience the event in the last 12 months at all, a score of 1 if they experienced the event either 0-6 or 6-12 months ago, and a score of 2 if they experienced the event 0-6 months or 6-12 months ago.

In subsequent sensitivity analyses, we also scored the Recent Life Changes Questionnaire using a “logical OR” scoring method, in which participants scored a 0 if they had not experienced the event in the last 0-12 months and a 1 if they had experienced the event at any point in the last 12 months, even if they reported experiencing the event in *both* the 0-6 and 6-12 month time windows. Results from this scoring method were identical to those reported in the main manuscript, with two exceptions: 1) there was an effect of dependent life stress on independent life stress in the negative affect ( $\beta$  range = .14 - .17,  $p = .02$ ) and disinhibition ( $\beta$  range = .14 - .17,  $p$ -value = .03) models, but not the antagonism or three-dimension (simultaneous prediction) models; 2) the effect of independent stress on negative affect did not rise to the level of significance even in the model that included all three dimensions simultaneously ( $\beta$  range = .07 - .09,  $p = .08$ ).

Responses on the Recent Life Changes Questionnaire were manually inspected for potential overreporting (e.g., endorsing over 85% of all stressful life events, reporting *all* independent stressful life events, the same participant endorsing rare events in consecutive assessments). This led to the removal of 1 case at baseline, 3 at Year 1, 3 at Year 2, 5 at Year 3, 1 at Year 4, and 0 at Year 5.

Table S2. *Diagnostic characterization of the sample.*

<u>Diagnosis</u>	<u>Frequency (%)</u>
Adjustment Disorder	11 (3%)
Agoraphobia	13 (4%)
Alcohol Use Disorder	75 (21%)
Bipolar Disorder (Any)*	3 (1%)
Drug Use Disorder (Any)	72 (20%)
Dysthymia	64 (18%)
Eating Disorder (Any)	41 (12%)
Generalized Anxiety Disorder	82 (23%)
Major Depression	194 (55%)
Obsessive Compulsive Disorder	53 (15%)
Panic Disorder	75 (21%)
Schizoaffective Disorder*	1 (< 1%)
Social Anxiety Disorder	58 (16%)
Somatization Disorder (Any)	4 (1%)
Specific Phobia	62 (18%)
<u>Personality Disorders</u>	
Antisocial	65 (18%)
Avoidant	66 (19%)
Dependent	37 (10%)
Histrionic	46 (13%)
Narcissistic	11 (3%)
Paranoid	42 (12%)
Obsessive-Compulsive	36 (10%)
Schizoid	7 (2%)
Schizotypal	6 (2%)

*Note.* Three participants were missing baseline SCID assessments (total SCID  $N = 352$ ).

\*Diagnoses for 4 individuals who initially met all inclusion/exclusion criteria were later adjusted based on updated clinical information. These subjects met all study criteria for a diagnosis of BPD and thus were retained for analyses.

Table S3. *Descriptive Statistics & Rates of Missingness for all Study Variables.*

<u>Variable</u>	<u>Mean</u>	<u>SD</u>	<u><math>\alpha</math></u>	<u>Skew</u>	<u>Observed Range</u>	<u>Possible Range</u>	<u>% Missing</u>
<u>Stress Variables</u>							
Dependent Stress Y0	3.54	2.63	---	.89	0-13	0-30	21.41
Dependent Stress Y1	2.27	2.10	---	.94	0-9	0-30	61.97
Dependent Stress Y2	2.18	1.89	---	1.03	0-9	0-30	72.96
Dependent Stress Y3	2.00	1.88	---	1.19	0-9	0-30	75.49
Independent Stress Y0	1.22	1.17	---	.80	0-5	0-10	21.41
Independent Stress Y1	.9	.99	---	.83	0-3	0-10	61.97
Independent Stress Y2	.89	.95	---	.46	0-4	0-10	72.96
Independent Stress Y3	.98	.96	---	.52	0-3	0-10	75.49
<u>Negative Affect Indicators</u>							
Beck Depression Y0	27.19	11.60	.89	-.10	0-54	0-63	12.68
Beck Depression Y1	19.69	12.76	.93	.46	0-51	0-63	56.06
Beck Depression Y2	20.44	13.36	.93	.40	0-55	0-63	58.03
Beck Depression Y3	21.42	12.98	.93	.46	0-53	0-63	66.76
Hamilton Depression Y0	13.45	6.31	.71	-.10	0-29	0-50	3.66
Hamilton Depression Y1	11.39	6.86	.77	.20	0-27	0-50	48.17
Hamilton Depression Y2	11.60	7.61	.82	.41	0-34	0-50	52.11
Hamilton Depression Y3	11.65	7.57	.81	.48	0-32	0-50	56.62
SCL Internalizing Y0	19.75	8.89	---*	.08	.67-44.67	0-46.67	42.54
SCL Depression Y0	27.99	11.22	.89	-.31	1-52	0-52	42.54
SCL Anxiety Y0	15.60	9.01	.87	.33	0-40	0-40	42.54
SCL Somatization Y0	15.65	9.98	.88	.45	0-48	0-48	42.54
SCL Internalizing Y1	16.78	9.48	---	.54	0-43.33	0-46.67	62.25
SCL Depression Y1	22.65	12.10	.91	.18	0-49	0-52	62.25
SCL Anxiety Y1	13.53	8.88	.89	.56	0-39	0-40	62.25
SCL Somatization Y1	14.16	10.35	.91	.80	0-42.55	0-48	62.25
SCL Internalizing Y2	16.88	9.77	---	.39	0-42.00	0-46.67	67.61
SCL Depression Y2	22.78	12.84	.92	.12	0-50	0-52	67.61
SCL Anxiety Y2	13.35	8.95	.89	.51	0-40	0-40	67.61
SCL Somatization Y2	14.50	10.44	.91	.65	0-39	0-48	67.61
SCL Internalizing Y3	17.90	10.86	---	.61	.33-45.33	0-46.67	67.89
SCL Depression Y3	24.12	13.75	.94	.16	0-52	0-52	67.89
SCL Anxiety Y3	14.43	10.04	.91	.61	0-38	0-40	67.89
SCL Somatization Y3	15.16	11.64	.93	.88	0-46	0-48	67.89
<u>Antagonism Indicators</u>							
Buss Assault Y0	5.10	2.71	.76	-.13	0-10	0-10	7.89
Buss Assault Y1	5.10	2.64	.75	-.17	0-10	0-10	52.68
Buss Assault Y2	4.52	2.64	.75	.28	0-10	0-10	56.62

Buss Assault Y3	4.66	2.78	.78	.09	0-10	0-10	57.46
Buss Indirect Y0	6.36	1.83	.57	-.64	0-9	0-9	7.89
Buss Indirect Y1	6.34	1.84	.56	-.62	0-9	0-9	52.68
Buss Indirect Y2	6.01	1.9	.57	-.59	1-9	0-9	56.62
Buss Indirect Y3	5.98	2.09	.67	-.60	0-9	0-9	57.46
Buss Verbal Y0	8.51	2.99	.76	-.57	0-13	0-13	7.89
Buss Verbal Y1	8.48	2.74	.70	-.31	1-13	0-13	52.68
Buss Verbal Y2	8.15	2.78	.70	-.21	2-13	0-13	56.62
Buss Verbal Y3	7.92	2.98	.75	-.16	2-13	0-13	57.75

Disinhibition Indicators

BIS Cognition Y0	23.01	4.79	.68	-.22	9.6-32	0-32	8.45
BIS Cognition Y1	22.60	4.66	.67	-.17	11.2-32	0-32	54.08
BIS Cognition Y2	21.79	4.55	.62	-.01	9.6-32	0-32	59.44
BIS Cognition Y3	22.06	4.75	.64	.14	9.6-32	0-32	60.85
BIS Motor Y0	27.89	5.56	.68	.04	12.22-44.00	0-44	8.45
BIS Motor Y1	26.55	5.48	.70	.03	14.67-40.33	0-44	54.08
BIS Motor Y2	25.86	5.45	.69	.32	13.44-41.56	0-44	59.44
BIS Motor Y3	25.33	5.55	.71	.40	14.67-40.33	0-44	60.85
BIS Nonplanning Y0	29.47	5.76	.75	-.24	12.1-41.8	0-44	8.17
BIS Nonplanning Y1	28.85	5.71	.76	-.08	14.3-41.8	0-44	54.08
BIS Nonplanning Y2	27.85	5.60	.75	.12	13.2-42.9	0-44	59.44
BIS Nonplanning Y3	28.44	5.75	.77	.10	13.2-44	0-44	60.85

\*SCL Internalizing was a composite of the SCL Depression, Anxiety, and Somatization Subscales at each time point. Reliabilities for each subscale are provided.

Table S4. *Frequency of Stressful Life Events.*

<u>Variable</u>	<u>Number of Events</u>				
	<u>N</u>	<u>0 (%)</u>	<u>1-2 (%)</u>	<u>3-5 (%)</u>	<u>≥ 5 (%)</u>
Dependent Stress Y0	280	32 (11%)	79 (28%)	112 (40%)	57 (20%)
Dependent Stress Y1	135	34 (25%)	46 (34%)	44 (33%)	11 (8%)
Dependent Stress Y2	96	18 (19%)	43 (45%)	31 (32%)	4 (4%)
Dependent Stress Y3	87	19 (22%)	42(48%)	20 (23%)	6 (7%)
Independent Stress Y0	280	94 (34%)	144 (51%)	42 (15%)	0 (0%)
Independent Stress Y1	135	60 (44%)	62 (46%)	13 (10%)	0 (0%)
Independent Stress Y2	96	42 (44%)	49 (51%)	5 (5%)	0 (0%)
Independent Stress Y3	87	34 (39%)	46 (53%)	7 (8%)	0 (0%)

Table S5. *Measurement Invariance Results for Negative Affect, Antagonism, and Disinhibition*

<u>Invariance Model</u>	<u>df</u>	<u>AIC</u>	<u>BIC</u>	$\chi^2$	$\Delta\chi^2 (p)$	<u>CFI</u>	<u>RMSEA</u>
<u>Antagonism</u>							
Configural	30	9778	10007	37.68	---	.99	.03
Weak	36	9773	9980	44.79	7.48 (.28)	.99	.03
Strong	42	9766	9949	48.97	4.31 (.63)	.99	.02
<b>Strict</b>	<b>51</b>	<b>9756</b>	<b>9905</b>	<b>57.68</b>	<b>9.68 (.38)</b>	<b>.99</b>	<b>.02</b>
<u>Negative Affect</u>							
Configural	30	14592	14824	52.25	---	.98	.04
Weak	36	14588	14797	60.48	8.72 (.19)	.98	.04
<b>Strong</b>	<b>42</b>	<b>14584</b>	<b>14770</b>	<b>68.58</b>	<b>7.92 (.24)</b>	<b>.98</b>	<b>.04</b>
Strict	51	14584	14735	85.92	16.97 (.049)	.97	.04
<u>Disinhibition</u>							
Configural	30	12962	13190	49.15	---	.98	.05
Weak	36	12960	13165	58.67	9.62 (.14)	.98	.05
<b>Partial Strong</b>	<b>40</b>	<b>12954</b>	<b>13144</b>	<b>60.36</b>	<b>1.76 (.78)</b>	<b>.98</b>	<b>.04</b>
Strong	42	12967	13150	78.04	20.56 (.002) <sup>a</sup>	.97	.05
Strict	51	12954	13102	82.60	4.84 (.85)	.97	.05

*Note.* Bold denotes the model that was carried forward to structural analyses. P-values refer to the result of the chi-square difference test comparing a given model to the one preceding it. Chi-square difference tests are based on chi-square values from each model, corrected for nonnormality via scaling correction factors. Disinhibition exhibited partial strong measurement invariance, meaning that only a subset of indicators were invariant across time. This suggests that one or more indicators of the construct (in this case, the BIS Nonplanning indicator) exhibited variation in its mean across waves, above and beyond what was accounted for by the latent disinhibition factor. Based on modification indices, we allowed the intercepts for BIS Nonplanning at baseline and Year 3 to be freely estimated. The resulting partially invariant model showed no significant decrement in fit and was retained for further analyses. <sup>a</sup>P-value refers to the chi-square difference test between the strong and weak Disinhibition models.



Table S6. *ARCL Model of Antagonism and Life Stress*

	<u><i>b</i></u>	<u><i>SE</i></u>	<u><i>β</i> range</u>	<u><i>p</i></u>
<u>Autoregressive Paths</u>				
ant <sub>t</sub> on ant <sub>t-1</sub>	.84	.04	.84, .85	< .001
ind <sub>t</sub> on ind <sub>t-1</sub>	.26	.06	.26, .30	< .001
dep <sub>t</sub> on dep <sub>t-1</sub>	.37	.07	.39, .45	< .001
<u>Cross-lagged Paths</u>				
ant <sub>t</sub> on ind <sub>t-1</sub>	-.02	.09	-.01, -.01	.82
ant <sub>t</sub> on dep <sub>t-1</sub>	.05	.05	.04, .05	.32
ind <sub>t</sub> on ant <sub>t-1</sub>	.02	.03	.05, .05	.48
ind <sub>t</sub> on dep <sub>t-1</sub>	.01	.03	.02, .03	.67
dep <sub>t</sub> on ant <sub>t-1</sub>	.18	.05	.20, .24	< .001
dep <sub>t</sub> on ind <sub>t-1</sub>	.05	.11	.03, .03	.67
<u>Covariances</u>				
ant <sub>3</sub> with ind <sub>3</sub>	.47	.19	.42	.01
ant <sub>3</sub> with dep <sub>3</sub>	.36	.38	.19	.34
ind <sub>3</sub> with dep <sub>3</sub>	.13	.17	.09	.44

Table S7. ARCL Model of Disinhibition and Life Stress

	<u><i>b</i></u>	<u><i>SE</i></u>	<u><i>β</i> range</u>	<u><i>p</i></u>
<u>Autoregressive Paths</u>				
dis <sub>t</sub> on dis <sub>t-1</sub>	.88	.03	.87, .91	< .001
ind <sub>t</sub> on ind <sub>t-1</sub>	.26	.06	.26, .30	< .001
dep <sub>t</sub> on dep <sub>t-1</sub>	.42	.07	.45, .49	< .001
<u>Cross-lagged Paths</u>				
dis <sub>t</sub> on ind <sub>t-1</sub>	-.15	.16	-.03, -.04	.34
dis <sub>t</sub> on dep <sub>t-1</sub>	-.04	.07	-.02, -.02	.57
ind <sub>t</sub> on dis <sub>t-1</sub>	-.004	.01	-.02, -.02	.78
ind <sub>t</sub> on dep <sub>t-1</sub>	.02	.03	.04, .05	.44
dep <sub>t</sub> on dis <sub>t-1</sub>	.05	.02	.11, .13	.03
dep <sub>t</sub> on ind <sub>t-1</sub>	.02	.11	.01, .01	.85
<u>Covariances</u>				
dis <sub>3</sub> with ind <sub>3</sub>	.37	.35	.17	.29
dis <sub>3</sub> with dep <sub>3</sub>	.12	.74	.03	.88
ind <sub>3</sub> with dep <sub>3</sub>	.21	.16	.14	.19

Table S8. ARCL Model of Negative Affect and Life Stress

	<u>b</u>	<u>SE</u>	<u><math>\beta</math> range</u>	<u>p</u>
<u>Autoregressive Paths</u>				
na <sub>t</sub> on na <sub>t-1</sub>	.75	.05	.61, .74	< .001
ind <sub>t</sub> on ind <sub>t-1</sub>	.25	.06	.25, .29	< .001
dep <sub>t</sub> on dep <sub>t-1</sub>	.43	.07	.47, .51	< .001
<u>Cross-lagged Paths</u>				
na <sub>t</sub> on ind <sub>t-1</sub>	.70	.38	.07, .10	.06
na <sub>t</sub> on dep <sub>t-1</sub>	-.11	.15	-.02, -.03	.48
ind <sub>t</sub> on na <sub>t-1</sub>	.01	.01	.06, .09	.24
ind <sub>t</sub> on dep <sub>t-1</sub>	.02	.03	.04, .05	.45
dep <sub>t</sub> on na <sub>t-1</sub>	.003	.01	.01, .02	.79
dep <sub>t</sub> on ind <sub>t-1</sub>	.01	.12	.01, .01	.94
<u>Covariances</u>				
na <sub>3</sub> with ind <sub>3</sub>	.66	.59	.12	.27
na <sub>3</sub> with dep <sub>3</sub>	.80	.94	.08	.39
ind <sub>3</sub> with dep <sub>3</sub>	.18	.16	.13	.25

Table S9. ARCL Model of Negative Affect, Disinhibition, Antagonism, and Life Stress

	<u>b</u>	<u>SE</u>	<u><math>\beta</math> range</u>	<u>p</u>
<u>Autoregressive Paths</u>				
dis <sub>t</sub> on dis <sub>t-1</sub>	.86	.03	.84, .88	< .001
ant <sub>t</sub> on ant <sub>t-1</sub>	.84	.03	.84, .85	< .001
na <sub>t</sub> on na <sub>t-1</sub>	.74	.05	.60, .72	< .001
ind <sub>t</sub> on ind <sub>t-1</sub>	.25	.06	.25, .29	< .001
dep <sub>t</sub> on dep <sub>t-1</sub>	.36	.07	.38, .44	< .001
<u>Cross-lagged Paths</u>				
dis <sub>t</sub> on ind <sub>t-1</sub>	-.16	.15	-.03, -.04	.28
dis <sub>t</sub> on dep <sub>t-1</sub>	.02	.06	.01, .01	.82
na <sub>t</sub> on ind <sub>t-1</sub>	.74	.37	.08-.11	.048
na <sub>t</sub> on dep <sub>t-1</sub>	-.11	.15	-.02, -.04	.44
ant <sub>t</sub> on ind <sub>t-1</sub>	-.02	.09	-.01, -.01	.80
ant <sub>t</sub> on dep <sub>t-1</sub>	.05	.05	.04, .06	.26
ind <sub>t</sub> on dis <sub>t-1</sub>	-.01	.02	-.06, -.06	.44
ind <sub>t</sub> on na <sub>t-1</sub>	.01	.01	.08, .12	.20
ind <sub>t</sub> on ant <sub>t-1</sub>	.02	.03	.06, .06	.43
ind <sub>t</sub> on dep <sub>t-1</sub>	.01	.03	.02, .03	.68
dep <sub>t</sub> on dis <sub>t-1</sub>	.05	.03	.11, .12	.07
dep <sub>t</sub> on na <sub>t-1</sub>	-.01	.02	-.04, -.06	.44
dep <sub>t</sub> on ant <sub>t-1</sub>	.16	.05	.18, .21	.002
dep <sub>t</sub> on ind <sub>t-1</sub>	.05	.12	.03, .03	.68
<u>Covariances</u>				
dis <sub>t</sub> with na <sub>t</sub>	8.16	1.17	.28, .59	< .001
dis <sub>t</sub> with ant <sub>t</sub>	1.20	.24	.11, .43	< .001
ant <sub>t</sub> with na <sub>t</sub>	1.69	.59	.11, .22	.004
dis <sub>3</sub> with ind <sub>3</sub>	.33	.37	.15	.36
dis <sub>3</sub> with dep <sub>3</sub>	.06	.72	.02	.94
na <sub>3</sub> with ind <sub>3</sub>	.72	.54	.13	.18
na <sub>3</sub> with dep <sub>3</sub>	.45	.95	.05	.64
ant <sub>3</sub> with ind <sub>3</sub>	.47	.19	.42	.01
ant <sub>3</sub> with dep <sub>3</sub>	.37	.36	.19	.31
ind <sub>3</sub> with dep <sub>3</sub>	.18	.17	.13	.28

Table S10. *ARCL Model of Antagonism and Life Stress, Covarying for Age, Sex, and Race*

	<u><i>b</i></u>	<u><i>SE</i></u>	<u><i>β</i> range</u>	<u><i>p</i></u>
<u>Autoregressive Paths</u>				
ant <sub>t</sub> on ant <sub>t-1</sub>	.84	.04	.83, .85	< .001
ind <sub>t</sub> on ind <sub>t-1</sub>	.27	.06	.26, .30	< .001
dep <sub>t</sub> on dep <sub>t-1</sub>	.36	.07	.38, .44	< .001
<u>Cross-lagged Paths</u>				
ant <sub>t</sub> on ind <sub>t-1</sub>	-.01	.09	-.004, -.01	.91
ant <sub>t</sub> on dep <sub>t-1</sub>	.04	.05	.03, .04	.43
ind <sub>t</sub> on ant <sub>t-1</sub>	.02	.03	.06, .06	.41
ind <sub>t</sub> on dep <sub>t-1</sub>	.02	.03	.05, .06	.43
dep <sub>t</sub> on ant <sub>t-1</sub>	.17	.05	.19, .23	.001
dep <sub>t</sub> on ind <sub>t-1</sub>	.04	.11	.02, .02	.71
<u>Covariate Paths</u>				
ant <sub>1</sub> on age	-.02	.02	-.07	.28
ant <sub>1</sub> on sex	.16	.34	.03	.63
ant <sub>1</sub> on race	.14	.27	.02	.62
ind <sub>1</sub> on age	.03	.01	.20	.02
ind <sub>1</sub> on sex	.18	.19	.08	.32
ind <sub>1</sub> on race	-.25	.18	-.11	.15
dep <sub>1</sub> on age	-.01	.02	-.05	.45
dep <sub>1</sub> on sex	.47	.42	.09	.26
dep <sub>1</sub> on race	-.07	.42	-.01	.87
<u>Covariances</u>				
ant <sub>3</sub> with ind <sub>3</sub>	.46	.19	.41	.02
ant <sub>3</sub> with dep <sub>3</sub>	.38	.38	.19	.32
ind <sub>3</sub> with dep <sub>3</sub>	.13	.17	.09	.44

Note. Race was coded as 0 = white, 1 = non-white. Biological sex was coded 0 = female, 1 = male. Model fit:  $\chi^2(228) = 366.63$ , CFI = .91, RMSEA = .04, SRMR = .09.

Table S11. ARCL Model of Disinhibition and Life Stress, Covarying for Age, Sex, and Race

	<u>b</u>	<u>SE</u>	<u><math>\beta</math> range</u>	<u>p</u>
<u>Autoregressive Paths</u>				
dis <sub>t</sub> on dis <sub>t-1</sub>	.88	.03	.87, .91	< .001
ind <sub>t</sub> on ind <sub>t-1</sub>	.27	.06	.27, .30	< .001
dep <sub>t</sub> on dep <sub>t-1</sub>	.41	.07	.43, .48	< .001
<u>Cross-lagged Paths</u>				
dis <sub>t</sub> on ind <sub>t-1</sub>	-.14	.15	-.03, -.03	.37
dis <sub>t</sub> on dep <sub>t-1</sub>	-.04	.07	-.02, -.02	.52
ind <sub>t</sub> on dis <sub>t-1</sub>	-.004	.01	-.02, -.02	.78
ind <sub>t</sub> on dep <sub>t-1</sub>	.03	.03	.06, .08	.24
dep <sub>t</sub> on dis <sub>t-1</sub>	.05	.02	.10, .13	.04
dep <sub>t</sub> on ind <sub>t-1</sub>	.02	.11	.01, .01	.88
<u>Covariate Paths</u>				
dis <sub>1</sub> on age	-.01	.04	-.01	.80
dis <sub>1</sub> on sex	.62	.65	.05	.34
dis <sub>1</sub> on race	-.33	.56	-.03	.56
ind <sub>1</sub> on age	.03	.01	.20	.02
ind <sub>1</sub> on sex	.19	.19	.08	.30
ind <sub>1</sub> on race	-.23	.18	-.10	.21
dep <sub>1</sub> on age	-.02	.02	-.07	.27
dep <sub>1</sub> on sex	.58	.43	.11	.18
dep <sub>1</sub> on race	.01	.42	.002	.98
<u>Covariances</u>				
dis <sub>3</sub> with ind <sub>3</sub>	.36	.35	.17	.30
dis <sub>3</sub> with dep <sub>3</sub>	.15	.75	.04	.84
ind <sub>3</sub> with dep <sub>3</sub>	.20	.16	.14	.20

Note. Race was coded as 0 = white, 1 = non-white. Biological sex was coded 0 = female, 1 = male. Model fit:  $\chi^2(217) = 317.24$ , CFI = .93, RMSEA = .04, SRMR = .09.

Table S12. ARCL Model of Negative Affect and Life Stress, Covarying for Age, Sex, and Race

	<u>b</u>	<u>SE</u>	<u><math>\beta</math> range</u>	<u>p</u>
<u>Autoregressive Paths</u>				
na <sub>t</sub> on na <sub>t-1</sub>	.75	.05	.61, .74	< .001
ind <sub>t</sub> on ind <sub>t-1</sub>	.26	.06	.26, .30	< .001
dep <sub>t</sub> on dep <sub>t-1</sub>	.42	.07	.45, .50	< .001
<u>Cross-lagged Paths</u>				
na <sub>t</sub> on ind <sub>t-1</sub>	.75	.38	.08, .11	.045
na <sub>t</sub> on dep <sub>t-1</sub>	-.13	.16	-.03, -.04	.40
ind <sub>t</sub> on na <sub>t-1</sub>	.01	.01	.07, .10	.18
ind <sub>t</sub> on dep <sub>t-1</sub>	.03	.03	.06, .08	.26
dep <sub>t</sub> on na <sub>t-1</sub>	.01	.01	.02, .03	.64
dep <sub>t</sub> on ind <sub>t-1</sub>	.00	.11	.00, .00	.98
<u>Covariate Paths</u>				
na <sub>1</sub> on age	.06	.07	.06	.34
na <sub>1</sub> on sex	1.10	1.17	.06	.35
na <sub>1</sub> on race	-1.82	1.10	-.10	.10
ind <sub>1</sub> on age	.03	.01	.20	.02
ind <sub>1</sub> on sex	.24	.19	.20	.20
ind <sub>1</sub> on race	-.24	.18	-.10	.18
dep <sub>1</sub> on age	-.02	.02	-.07	.28
dep <sub>1</sub> on sex	.60	.44	.11	.17
dep <sub>1</sub> on race	.07	.42	.01	.87
<u>Covariances</u>				
na <sub>3</sub> with ind <sub>3</sub>	.63	.58	.12	.28
na <sub>3</sub> with dep <sub>3</sub>	.86	.94	.09	.36
ind <sub>3</sub> with dep <sub>3</sub>	.18	.16	.13	.25

Note. Race was coded as 0 = white, 1 = non-white. Biological sex was coded 0 = female, 1 = male. Model fit:  $\chi^2(219) = 343.62$ , CFI = .90, RMSEA = .04, SRMR = .10.





# Figure S2. Correlations Among All Study Variables

