Affective dynamics among veterans: Associations with distress tolerance and posttraumatic stress symptoms

Supplemental tables. Table numbers correspond to tables in main paper but are differentiated with the additional a, b, c to signify the respective supplemental models.

A. Tables for the DSEM with only distress tolerance as a predictor.

Table 3a

Within-level standardized estimates

Parameter	β	PSD	95% CI
φnn	0.37	0.004	(0.358, 0.375)
φpp	0.48	0.004	(0.475, 0.491)
φnp	-0.03	0.004	(-0.034, -0.020)
φpn	0.00	0.004	(-0.008, 0.006)
δPA_{it}	0.65	0.004	(0.641, 0.656)
δNA_{it}	0.52	0.006	(0.510, 0.533)
ψ_{it} by			
PA	0.24	0.003	(0.238, 0.251)
NA	-0.48	0.005	(-0.487, -0.467)

Note. φnn = NA autoregression, φpp PA autoregression, φpn= cross-lagged effect NA->PA, φnp= cross-lagged effect PA->NA, δPA_{it} positive affect innovation, δNA_{it} = negative affect innovation. ψ_{it} is the variance of the common factor η of the residuals, i.e., the residual covariance. The innovation parameters corresponding level 2 random variance terms are referred to as πPA and πNA (for the variances) and ψ for the covariance in subsequent tables of the between person effects. PSD = posterior standard deviation. CI = Bayes credibility interval.

Table 4a
Residual variances and correlations of random effects

	Variance (CI)	1	2	3	4	5	6	7	8	9
1. φnn	0.037 (0.030,0.046)	1.00								
2. φpp	0.027 (0.022,0.034)	**0.34**	1.00							
3. φnp	0.002 (0.001,0.002	0.03	**-0.19**	1.00						
4. φpn	0.012 (0.008,0.016)	**-0.24**	-0.06	**0.82**	1.00					
5. log(πPA)	0.883 (0.736,1.070)	**-0.23**	-0.06	0.01	-0.04	1.00				
6. log(πNA)	2.147 (1.770,2.632)	**0.21**	**-0.27**	0.07	0.00	**0.15**	1.00			
7. log(ψ)	2.334 (1.921,2.859)	0.05	0.05	**-0.41**	**-0.26**	**0.44**	0.14	1.00		
8. μPA	1.198 (1.001,1.452)	**-0.20**	0.07	-0.13	-0.11	**0.42**	**-0.25**	**0.37**	1.00	
9. μNA	0.261 (0.216,0.318)	**0.34**	**-0.16**	0.16	0.12	0.03	**0.61**	0.08	-0.08	1.00

Note. μPA=positive affect mean (random intercept), μNA= negative affect mean (random intercept). φnn = NA autoregression, φpp PA autoregression, φpn= cross-lagged effect NA->PA, φnp= cross-lagged effect PA->NA, log(πPA) = log positive affect innovation variance, log(πNA)= log negative affect innovation variance, log(ψ)=log of negative innovation covariance. Bold face effects are significant based on 95% credibility interval (CI).

Table 5a

Level 2 direct effects

Variables	β	PSD	95% CI
φnn ON			
DT	**-0.34**	**0.06**	**(-0.46, -0.21)**
φpp ON			
DT	0.11	0.07	(-0.04, 0.24)
φnp ON			
DT	-0.02	0.09	(-0.20, 0.17)
φpn ON			
DT	**0.18**	**0.09**	**(0.00, 0.34)**
log(πPA) ON			
DT	0.12	0.07	(-0.02, 0.24)
log(πNA) ON			
DT	**-0.39**	**0.06**	**(-0.50, 0.27)**
log(ψ) ON			
DT	**-0.18**	**0.07**	**(-0.31, -0.04)**
μPA ON			
DT	**0.24**	**0.07**	**(0.11, 0.37)**
μNA ON			
DT	**-0.41**	**0.06**	**(-0.52, -0.29)**

Note. Standardized effects are reported. PSD = posterior standard deviation. μPA=positive affect mean (random intercept), μNA= negative affect mean (random intercept). φnn = NA autoregression, φpp PA autoregression, φpn= cross-lagged effect NA->PA, φnp= cross-lagged effect PA->NA, log(πPA) = log positive affect innovation variance, log(πNA)= log negative affect innovation variance, log(ψ)=log of negative innovation covariance. Bold face effects are significant based on 95% credibility interval (CI).

B. Tables for the DSEM with only PTSS as a predictor.

Table 3b

Within-level standardized estimates

Parameter	β	PSD	95% CI
φnn	0.37	0.004	(0.358, 0.374)
φpp	0.48	0.004	(0.475, 0.490)
φnp	-0.03	0.004	(-0.035, -0.020)
φpn	0.00	0.004	(-0.008, 0.006)
δPA_{it}	0.65	0.004	(0.641, 0.656)
δNA_{it}	0.52	0.006	(0.509, 0.530)
ψ_{it} by			
PA	0.24	0.004	(0.237, 0.251)
NA	-0.48	0.005	(-0.487, -0.468)

Note. φnn = NA autoregression, φpp PA autoregression, φpn= cross-lagged effect NA->PA, φnp= cross-lagged effect PA->NA, δPA_{it} positive affect innovation, δNA_{it} = negative affect innovation. ψ_{it} is the variance of the common factor η of the residuals, i.e., the residual covariance. The innovation parameters corresponding level 2 random variance terms are referred to as πPA and πNA (for the variances) and ψ for the covariance in subsequent tables of the between person effects. PSD = posterior standard deviation. CI = Bayes credibility interval.

Table 4b
Residual variances and correlations of random effects

	Variance (CI)	1	2	3	4	5	6	7	8	9
1. φnn	0.039 (0.032,0.048)	1.00								
2. φpp	0.027 (0.022,0.034)	**0.33**	1.00							
3. φnp	0.001 (0.001,0.002	0.03	**-0.18**	1.00						
4. φpn	0.012 (0.009,0.017)	**-0.29**	-0.05	**0.80**	1.00					
5. log(πPA)	0.892 (0.744,1.082)	**-0.25**	-0.05	0.01	-0.03	1.00				
6. log(πNA)	1.737 (1.420,2.141)	**0.19**	**-0.28**	0.07	-0.07	**0.16**	1.00			
7. log(ψ)	2.338 (1.925,2.869)	0.07	0.05	**-0.40**	**-0.28**	**0.42**	0.13	1.00		
8. μPA	1.166 (0.975,1.406)	**-0.20**	0.06	-0.13	-0.06	**0.44**	**-0.19**	**0.38**	1.00	
9. μNA	0.222 (0.184,0.271)	**0.34**	**-0.15**	0.17	0.06	0.01	**0.53**	0.06	-0.01	1.00

Note. μPA=positive affect mean (random intercept), μNA= negative affect mean (random intercept). φnn = NA autoregression, φpp PA autoregression, φpn= cross-lagged effect NA->PA, φnp= cross-lagged effect PA->NA, log(πPA) = log positive affect innovation variance, log(πNA)= log negative affect innovation variance, log(ψ)=log of negative innovation covariance. Bold face effects are significant based on 95% credibility interval (CI).

Table 5b

Level 2 direct effects

Variables	β	PSD	95% CI
φnn ON			
PTSS	**0.29**	**0.06**	**(0.16, 0.41)**
φpp ON			
PTSS	-0.12	0.07	(-0.25, 0.02)
φnp ON			
PTSS	0.00	0.09	(-0.18, 0.18)
φpn ON			
PTSS	-0.04	0.09	(-0.22, 0.14)
log(πPA) ON			
PTSS	-0.06	0.07	(-0.19, 0.07)
log(πNA) ON			
PTSS	**0.55**	**0.05**	**(0.45, 0.64)**
log(ψ) ON			
PTSS	**0.17**	**0.07**	**(0.03, 0.30)**
μPA ON			
PTSS	**-0.29**	**0.06**	**(-0.40, -0.16)**
μNA ON			
PTSS	**0.54**	**0.05**	**(0.44, 0.63)**

Note. Standardized effects are reported. PSD = posterior standard deviation. μPA=positive affect mean (random intercept), μNA= negative affect mean (random intercept). φnn = NA autoregression, φpp PA autoregression, φpn= cross-lagged effect NA->PA, φnp= cross-lagged effect PA->NA, log(πPA) = log positive affect innovation variance, log(πNA)= log negative affect innovation variance, log(ψ)=log of negative innovation covariance. Bold face effects are significant based on 95% credibility interval (CI).

C. Tables for the DSEM with distress tolerance, PTSS, and gender as unstructured predictors.

Table 3c

Within-level standardized estimates

Parameter	β	PSD	95% CI
φnn	0.37	0.004	(0.358, 0.374)
φpp	0.48	0.004	(0.475, 0.491)
φnp	-0.03	0.004	(-0.035, -0.020)
φpn	0.00	0.004	(-0.007, 0.007)
δPA_{it}	0.65	0.003	(0.641, 0.655)
δNA_{it}	0.52	0.006	(0.510, 0.533)
ψ_{it} by			
PA	0.25	0.003	(0.239, 0.251)
NA	-0.48	0.005	(-0.487, -0.466)

Note. φnn = NA autoregression, φpp PA autoregression, φpn= cross-lagged effect NA->PA, φnp= cross-lagged effect PA->NA, δPA_{it} positive affect innovation, δNA_{it} = negative affect innovation. ψ_{it} is the variance of the common factor η of the residuals, i.e., the residual covariance. The innovation parameters corresponding level 2 random variance terms are referred to as πPA and πNA (for the variances) and ψ for the covariance in subsequent tables of the between person effects. PSD = posterior standard deviation. CI = Bayes credibility interval.

Table 4c
Residual variances and correlations of random effects

	Variance (CI)	1	2	3	4	5	6	7	8	9
1. φnn	0.037 (0.030,0.046)	1.00								
2. φpp	0.027 (0.022,0.033)	**0.33**	1.00							
3. φnp	0.002 (0.001,0.002)	0.04	**-0.18**	1.00						
4. φpn	0.012 (0.008,0.016)	**-0.27**	-0.06	**0.81**	1.00					
5. log(πPA)	0.890 (0.741,1.078)	**-0.23**	-0.05	0.00	-0.04	1.00				
6. log(πNA)	1.746 (1.427,2.150)	**0.18**	**-0.29**	0.08	-0.06	**0.16**	1.00			
7. log(ψ)	2.336 (1.919,2.869)	0.04	0.06	**-0.41**	**-0.27**	**0.44**	0.13	1.00		
8. μPA	1.162 (0.970,1.406)	**-0.18**	0.07	-0.14	-0.07	**0.43**	**-0.19**	**0.39**	1.00	
9. μNA	0.223 (0.184,0.272)	**0.34**	**-0.15**	0.18	0.06	0.02	**0.53**	0.06	-0.01	1.00

Note. μPA=positive affect mean (random intercept), μNA= negative affect mean (random intercept). φnn = NA autoregression, φpp PA autoregression, φpn= cross-lagged effect NA->PA, φnp= cross-lagged effect PA->NA, log(πPA) = log positive affect innovation variance, log(πNA)= log negative affect innovation variance, log(ψ)=log of negative innovation covariance. Bold face effects are significant based on 95% credibility interval (CI).

Table 5c

Level 2 direct effects

Variables	β	PSD	95% CI
φnn ON			
PTSS	0.13	0.09	(-0.06, 0.31)
DT	**-0.23**	**0.09**	**(-0.41, -0.04)**
gender	-0.11	0.06	(-0.23,0.02)
φpp ON			
PTSS	-0.08	0.10	(-0.26, 0.13)
DT	0.07	0.10	(-0.12, 0.27)
Gender	**-0.16**	**0.07**	**(-0.29, -0.03)**
φnp ON			
PTSS	0.01	0.12	(-0.23, 0.25)
DT	0.00	0.12	(-0.24, 0.25)
Gender	0.04	0.08	(-0.12, 0.20)
φpn ON			
PTSS	0.16	0.13	(-0.10, 0.41)
DT	**0.27**	**0.12**	**(0.03, 0.50)**
Gender	0.01	0.08	(-0.15, 0.18)
log(πPA) ON			
PTSS	0.02	0.09	(-0.17, 0.20)
DT	0.12	0.10	(-0.07, 0.30)
Gender	0.04	0.07	(-0.09, 0.16)
log(πNA) ON			
PTSS	**0.54**	**0.08**	**(0.38, 0.68)**
DT	-0.02	0.09	(-0.18, 0.15)
Gender	-0.04	0.06	(-0.15, 0.07)
log(ψ) ON			
PTSS	0.09	0.10	(-0.11, 0.28)
DT	-0.12	0.10	(-0.31, 0.08)
Gender	-0.01	0.07	(-0.14, 0.12)
μPA ON			
PTSS	**-0.24**	**0.09**	**(-0.41, -0.06)**
DT	0.07	0.09	(-0.11, 0.26)
Gender	0.08	0.06	(-0.05, 0.20)
μNA ON			
PTSS	**0.48**	**0.08**	**(0.33, 0.63)**
DT	-0.08	0.08	(-0.25, 0.08)
Gender	0.01	0.06	(-0.10, 0.12)

Note. Standardized effects are reported. PSD = posterior standard deviation. μPA=positive affect mean (random intercept), μNA= negative affect mean (random intercept). φnn = NA autoregression, φpp PA autoregression, φpn= cross-lagged effect NA->PA, φnp= cross-lagged effect PA->NA, log(πPA) = log positive affect innovation variance, log(πNA)= log negative affect innovation variance, log(ψ)=log of negative innovation covariance. Bold face effects are significant based on 95% credibility interval (CI).