Supplementary Material

Equations below reflect prototypical Depressive Affects Models that include all predictors, mediators, and random effects. In these models $\hat{Y}\_{ijk}$ reflects the predicted value of the NA or PA index for EMA observation *i* during day *j* for participant *k*, and *u* and $v$are Level 2 and Level 3 random effects, respectively. Time-varying components of stress are given as *PmStress* and *wStress*, and *t-1* denotes observation at the prior EMA prompt. Adaptive and Maladaptive ER indices are given as *aER* and *mER*, and *time* is the lag between current and prior EMA observation. The effects of age and gender were covaried, but are not presented below to reduce equation complexity. The prospective model mirrors the contemporaneous model with respect to the random intercept ($β\_{0jk}$, $δ\_{00k}$,) and random slope of within-person stress ($β\_{1jk}$, $δ\_{10k}$) equations. Therefore only unique elements of the prospective model are presented.

Contemporaneous EMA Model

Level 1 (EMA Observation):

$$ \hat{Y}\_{ijk}=β\_{0jk}+β\_{1jk}wStress\_{ijk}$$

Level 2 (Day):

$$β\_{0jk}= δ\_{00k}+δ\_{01k}CSA+δ\_{02k}PmStress+δ\_{03k}mER+δ\_{04k}aER+δ\_{05k}CSAxPmStress+δ\_{06k}mERxPmStress+δ\_{07k}aERxPmStress+u\_{0jk}$$

$$β\_{1jk}= δ\_{10k}+δ\_{11k}CSA+δ\_{12k}mER+δ\_{13k}aER+u\_{1jk}$$

Level 3 (Participant):

$$ δ\_{00k}= γ\_{000}+γ\_{001}CSA+γ\_{002}PmStress+γ\_{003}mER+γ\_{004}aER+γ\_{005}CSAxPmStress+γ\_{006}mERxPmStress+γ\_{007}aERxPmStress+v\_{00k}$$

$$δ\_{10k}= γ\_{100}+γ\_{101}CSA+γ\_{102}mER+γ\_{103}aER+v\_{10k}$$

Prospective EMA Model

Level 1 (EMA Observation):

$$ \hat{Y}\_{ijk}=β\_{0jk}+β\_{1jk}wStress\_{ijk, t-1}+β\_{2jk}(NA or PA)\_{ijk,t-1}+β\_{3jk}time\_{ijk,t-1}+β\_{4jk}(NA or PA)\_{ijk,t-1}xtime\_{ijk,t-1}$$

Level 2 (Day):

$$β\_{2jk}= δ\_{20k}+u\_{2jk}$$

$$β\_{3jk}= δ\_{30k}+u\_{3jk}$$

$$β\_{4jk}= δ\_{40k}+u\_{4jk}$$

Level 3 (Participant):

$$δ\_{20k}= γ\_{200}+v\_{20k}$$

$$δ\_{30k}= γ\_{300}+v\_{30k}$$

$$δ\_{40k}= γ\_{400}+v\_{40k}$$