Supplemental Table 1. Level-2 intercorrelations for study variables.

	Agg	LPFS Baseline	NA	DET	ANT	DIS	PSY	LPFS iMEAN	NA	DET	ANT	DIS	PSY	Urge
Agg	1.00													
LPFS-b	0.19	1.00												
NA-b	0.19	0.47	1.00											
DET-b	0.08	0.57	0.43	1.00										
ANT-b	0.15	0.31	0.25	0.39	1.00									
DIS-b	0.19	0.45	0.39	0.43	0.47	1.00								
PSY-b	0.16	0.40	0.45	0.49	0.49	0.56	1.00							
LPFS-iMEAN	0.28	0.69	0.29	0.50	0.39	0.44	0.42	1.00						
NA-iMEAN	0.26	0.49	0.70	0.45	0.31	0.29	0.41	0.54	1.00					
DET-iMEAN	0.27	0.53	0.43	0.69	0.45	0.42	0.50	0.65	0.67	1.00				
ANT-iMEAN	0.20	0.39	0.25	0.37	0.65	0.44	0.39	0.56	0.46	0.63	1.00			
DIS-iMEAN	0.24	0.41	0.31	0.37	0.38	0.70	0.43	0.59	0.54	0.63	0.61	1.00		
PSY-iMEAN	0.19	0.44	0.33	0.45	0.42	0.45	0.70	0.60	0.54	0.69	0.64	0.66	1.00	
Urge-iMEAN	0.38	0.34	0.31	0.28	0.28	0.18	0.32	0.49	0.49	0.52	0.49	0.37	0.47	1.00

Note. Baseline variable associations based on both samples (n=526). iMEAN variable associations based on one sample only (n=278). Agg = aggression, coded as 0 (no endorsement of any aggressive behaviors throughout their entire study) or 1 (any endorsement of aggressive behaviors). LPFS = Level of personality functioning scale. NA = Negative Affectivity. DET = Detachment. ANT = Antagonism. DIS = Disinhibition. PSY = Psychoticism. Urge calculated as the intraindividual mean (iMEAN) score for each participant, which was sample centered. All correlations significant at $p < .05$ except the aggression and baseline detachment association (0.08), which was $p > .05$.

Supplemental Table 2. Level-1 intercorrelations for study variables.

	Agg	LPFS	NA	DET	ANT	DIS	PSY	Urge
Agg	1							
LPFS	0.11	1						
NA	0.08	0.26	1					
DET	0.07	0.30	0.40	1				
ANT	0.04	0.19	0.28	0.40	1			
DIS	0.08	0.23	0.32	0.39	0.34	1		
PSY	0.06	0.25	0.38	0.44	0.49	0.41	1	
Urge	0.21	0.19	0.22	0.14	0.10	0.12	0.13	1

Note. All correlations significant at $p < .05$. n=278. First column calculated in PROC GLIMMIX with aggression (agg) as the binary outcome and one level-1 person-centered predictor (fixed effect only). The type III fixed effect f score was applied to the Rosenthal & Rosnow (1984) formula to derive an r type effect size: square root of f/(f + denominator degrees of freedom). Other columns used a similar approach, with the column variable being used as the outcome (so entered uncentered) and the variable for each row entered as a person-centered predictor (only fixed effect). This proceeded with PROC MIXED since variables were dimensional. Note that the denominator df was around 3000, but varied slightly for each model based on missing data.

Supplemental Table 3. Associations among daily aggression behaviors and baseline AMPD variables with both aggregated and individual aggression items.

Variable	Aggregated Aggression OR (CIs)	Physical Aggression OR (CIs)	Verbal Aggression OR (CIs)	Take Advantage OR (CIs)	Angry Aggression OR (CIs)
Univariate associations					
LPFS baseline	**2.27 (1.72 – 2.99)**	1.91 (0.88 – 4.11)	**2.12 (1.57 – 2.87)**	**2.93 (1.63 – 5.28)**	**2.20 (1.62 – 3.00)**
NA baseline	**1.89 (1.50 – 2.37)**	0.87 (0.42 – 1.80)	**1.60 (1.24 – 2.07)**	**1.85 (1.11 – 3.10)**	**2.17 (1.68 – 2.80)**
DET baseline	**1.47 (1.08 – 2.00)**	0.59 (0.20 – 1.76)	1.19 (0.84 – 1.67)	1.49 (0.77 – 2.88)	**1.70 (1.21 – 2.38)**
ANT baseline	**2.26 (1.60 – 3.19)**	1.61 (0.59 – 4.34)	**1.80 (1.24 – 2.62)**	**5.26 (2.72 – 10.17)**	**1.98 (1.56 – 2.91)**
DIS baseline	**2.50 (1.85 – 3.39)**	0.88 (0.31 – 2.49)	**1.85 (1.32 – 2.59)**	**2.81 (1.50 – 5.26)**	**2.60 (1.86 – 3.64)**
PSY baseline	**2.19 (1.62 – 2.95)**	1.71 (0.73 – 4.01)	**1.84 (1.33 – 2.56)**	**4.13 (2.23 – 7.66)**	**2.27 (1.63 – 3.16)**
Multivariate regression					
LPFS baseline	**1.80 (1.26 – 2.56)**	**4.00 (1.58 – 10.09)**	**2.20 (1.48 – 3.25)**	**3.03 (1.34 – 6.86)**	1.42 (0.95 – 2.13)
NA baseline	**1.43 (1.09 – 1.87)**	0.63 (0.25 – 1.57)	1.26 (0.93 – 1.71)	1.19 (0.62 – 2.28)	**1.68 (1.24 – 2.27)**
DET baseline	**0.56 (0.37 – 0.82)**	**0.20 (0.05 – 0.79)**	**0.46 (0.29 – 0.72)**	**0.24 (0.09 – 0.65)**	0.73 (0.47 – 1.14)
ANT baseline	1.50 (1.00 – 2.25)	1.63 (0.48 – 5.54)	1.40 (0.89 – 2.18)	**3.87 (1.70 – 8.84)**	1.15 (0.73 – 1.81)
DIS baseline	**1.53 (1.03 – 2.27)**	0.32 (0.07 – 1.47)	1.13 (0.72 – 1.78)	0.71 (0.27 – 1.87)	**1.64 (1.05 – 2.55)**
PSY baseline	1.21 (0.81 – 1.81)	**3.78 (1.12 – 12.74)**	1.34 (0.85 – 2.12)	**3.26 (1.36 – 7.80)**	1.22 (0.78 – 1.92)

Note. Bold p < 0.05. OR (CIs)= odds ratio, with confidence intervals. -- = model did not converge. Aggregated aggression was a composite of physical aggression, verbal aggression, angry aggression, and taking advantage, scored as 1 if any checkbox was endorsed that day. LPFS = criterion A impairment from LPFS-SRA. NA = negative affectivity. DET = Detachment. ANT = Antagonism. DIS = Disinhibition. PSY = Psychoticism. Univariate associations included one independent variable per model, while multivariate associations contained six (LPFS, NA, DET, ANT, DIS, PSY) together in each model.

Supplemental Table 4. Univariate associations among daily aggression behaviors with daily and aggregated AMPD variables.

Variable	Aggregated Aggression OR (CIs)	Physical Aggression OR (CIs)	Verbal Aggression OR (CIs)	Take Advantage OR (CIs)	Angry Aggression OR (CIs)
Level-1					
LPFS daily	**2.62 (1.90 – 3.61)**	0.31 (0.05 – 1.98)	**2.78 (1.75 – 4.26)**	1.26 (0.35 – 4.53)	**2.44 (1.71 – 3.49)**
NA daily	**2.11 (1.53 – 2.90)**	3.55 (0.75 – 16.88)	**3.81 (2.36 – 6.16)**	--	**1.54 (1.07 – 2.23)**
DET daily	**2.09 (1.41 – 3.09)**	1.45 (0.19 – 11.24)	**3.14 (1.76 – 5.60)**	3.49 (0.75 – 16.29)	1.40 (0.89 – 2.22)
ANT daily	**1.60 (1.02 – 2.51)**	1.01 (0.07 – 13.99)	1.60 (0.77 – 3.31)	2.97 (0.66 – 13.34)	1.35 (0.81 – 2.24)
DIS daily	**2.22 (1.55 – 3.17)**	0.46 (0.05 – 3.87)	**2.92 (1.72 – 4.93)**	0.51 (0.12 – 2.29)	**1.79 (1.20 – 2.68)**
PSY daily	**1.94 (1.29 – 2.90)**	0.61 (0.05 – 7.31)	**2.41 (1.30 – 4.47)**	1.27 (0.23 – 7.03)	1.41 (0.89 – 2.25)
Level-2					
LPFS iMEAN	**2.64 (1.83 – 3.82)**	**3.37 (1.12 – 10.12)**	**2.13 (1.34 – 3.39)**	**6.58 (2.22 – 19.53)**	**2.46 (1.65 – 3.65)**
NA iMEAN	**2.21 (1.62 – 3.03)**	1.63 (0.55 – 4.82)	**2.30 (1.55 – 3.14)**	--	**2.13 (1.51 – 3.00)**
DET iMEAN	**2.89 (1.97 – 4.25)**	**4.78 (1.43 – 15.98)**	**2.62 (1.62 – 4.22)**	**5.96 (1.77 – 20.12)**	**2.62 (1.73 – 3.98)**
ANT iMEAN	**3.53 (2.02 – 5.57)**	2.81 (0.69 – 11.53)	**2.06 (1.09 – 3.89)**	**9.47 (2.79 – 32.12)**	**3.75 (2.20 – 6.37)**
DIS iMEAN	**3.14 (2.07 – 4.76)**	**3.32 (1.04 – 10.60)**	**2.39 (1.44 – 3.97)**	**5.24 (1.74 – 15.74)**	**3.06 (1.95 – 4.81)**
PSY iMEAN	**2.99 (1.90 – 4.71)**	3.38 (0.97 – 11.79)	**2.02 (1.15 – 3.55)**	**9.52 (2.92 – 31.03)**	**3.19 (1.96 – 5.18)**

Note. Bold p < 0.05. OR (CIs)= odds ratio, with confidence intervals. -- = model did not converge. Aggregated aggression was a composite of physical aggression, verbal aggression, angry aggression, and taking advantage, scored as 1 if any checkbox was endorsed that day. iMEAN = intraindividual mean calculated for each participant by averaging their records, sample centered so 0 represents the average score for a participant in the study. Daily = person-centered variables where 0 = average for that participant. LPFS = criterion A impairment from LPFS-SRA. NA = negative affectivity. DET = Detachment. ANT = Antagonism. DIS = Disinhibition. PSY = Psychoticism. Univariate associations included one independent variable per model, while multivariate associations contained six (LPFS, NA, DET, ANT, DIS, PSY) together in each model.

Supplemental Table 5. Multivariate associations among daily aggression behaviors with daily and aggregated AMPD variables.

Variable	Aggregated Aggression OR (CIs)	Physical Aggression OR (CIs)	Verbal Aggression OR (CIs)	Take Advantage OR (CIs)	Angry Aggression OR (CIs)
Level-1					
LPFS daily	**2.19 (1.54 – 3.11)**	0.23 (0.03 – 1.78)	1.69 (0.98 – 2.92)	1.02 (0.25 – 4.16)	**2.43 (1.63 – 3.63)**
NA daily	**1.51 (1.03 – 2.20)**	**9.07 (1.30 – 63.07)**	**2.72 (1.53 – 4.84)**	2.44 (0.25 – 23.34)	1.21 (0.78 – 1.87)
DET daily	1.08 (0.65 – 1.79)	1.89 (0.14 – 26.37)	1.34 (0.63 – 2.86)	6.34 (0.49 – 82.91)	0.78 (0.43 – 1.40)
ANT daily	0.79 (0.45 – 1.39)	1.45 (0.06 – 36.43)	0.62 (0.26 – 1.49)	3.56 (0.27 – 47.59)	0.90 (0.47 – 1.72)
DIS daily	1.51 (0.98 – 2.32)	0.27 (0.02 – 3.12)	1.64 (0.87 – 3.10)	0.15 (0.02 – 1.11)	1.45 (0.90 – 2.33)
PSY daily	1.08 (0.62 – 1.88)	0.33 (0.02 – 7.42)	1.00 (0.44 – 2.31)	0.37 (0.03 – 5.62)	0.96 (0.50 – 1.82)
Level-2					
LPFS iMEAN	1.45 (0.85 – 2.49)	2.22 (0.31 – 15.77)	1.34 (0.65 – 2.77)	2.83 (0.59 – 13.45)	1.30 (0.73 – 2.31)
NA iMEAN	1.34 (0.87 – 2.06)	0.29 (0.04 – 2.10)	1.61 (0.92 – 2.79)	0.12 (0.00 – 3.56)	1.41 (0.88 – 2.26)
DET iMEAN	1.26 (0.64 – 2.48)	8.10 (0.72 – 90.87)	1.69 (0.74 – 3.83)	0.24 (0.01 – 10.39)	0.89 (0.42 – 1.89)
ANT iMEAN	1.18 (0.55 – 2.53)	0.32 (0.03 – 4.12)	0.68 (0.26 – 1.77)	3.70 (0.21 – 63.69)	1.67 (0.73 – 3.81)
DIS iMEAN	1.60 (0.85 – 3.01)	2.12 (0.36 – 13.72)	1.59 (0.74 – 3.42)	1.99 (0.11 – 36.08)	1.45 (0.72 – 2.92)
PSY iMEAN	0.97 (0.46 – 2.04)	0.70 (0.05 – 9.81)	0.63 (0.25 – 1.61)	16.82 (0.75 – >300)	1.26 (0.56 – 2.84)

Note. Bold p < 0.05. OR (CIs)= odds ratio, with confidence intervals. -- = model did not converge. Aggregated aggression was a composite of physical aggression, verbal aggression, angry aggression, and taking advantage, scored as 1 if any checkbox was endorsed that day. iMEAN = intraindividual mean calculated for each participant by averaging their records, sample centered so 0 represents the average score for a participant in the study. Daily = person-centered variables where 0 = average for that participant. LPFS = criterion A impairment from LPFS-SRA. NA = negative affectivity. DET = Detachment. ANT = Antagonism. DIS = Disinhibition. PSY = Psychoticism. Univariate associations included one independent variable per model, while multivariate associations contained six (LPFS, NA, DET, ANT, DIS, PSY) together in each model.

Table 6. Results of post hoc power analysis indicating achieved power across outcome base rates for aggregated aggression outcome					
		Achieved Power based on Outcome Base Rate			
Variable	OR (CIs)	Actual (46.0%)	10%	5%	1%
Univariable Associations					
LPFS baseline	**2.27 (1.72 – 2.99)**	1.00	1.00	.994	.574
NA baseline	**1.89 (1.50 – 2.37)**	1.00	.995	.919	.352
DET baseline	**1.47 (1.08 – 2.00)**	.990	.761	.500	.148
ANT baseline	**2.26 (1.60 – 3.19)**	1.00	1.00	.994	.569
DIS baseline	**2.50 (1.85 – 3.39)**	1.00	1.00	.999	.698
PSY baseline	**2.19 (1.62 – 2.95)**	1.00	1.00	.989	.528
Multivariable Regression[†]					
LPFS baseline	**1.80 (1.26 – 2.56)**	.998	.880	.645	.195
NA baseline	**1.43 (1.09 – 1.87)**	.908	.531	.321	.106
DET baseline	**0.56 (0.37 – 0.82)**	.997	.862	.620	.186
ANT baseline	1.50 (1.00 – 2.25)	.961	.640	.400	.124
DIS baseline	**1.53 (1.03 – 2.27)**	.948	.612	.380	.120
PSY baseline	1.21 (0.81 – 1.81)	.351	.161	.108	.062

Note. Achieved power values based on normal distribution of predictor variable(s) and were rounded to three decimal places. [†]Values for R^2 of other explanatory variables in multivariable regression used for correction factors were the following: LPFS = .417, NA = .317, DET = .433, ANT = .315, DIS = .416, PSY = .458.