Table S1. CU[a] Descriptive Statistics

	Age 2 M(SD)	*Age 3* M(SD)
Female Participants	1.45 (1.44)	1.13 (1.21)
Male Participants	1.62 (1.51)	1.39 (1.41)

Note: CU=Callous-Unemotional Behaviors

[a]Means are for non-transformed CU scores

for ease of interpretation.

Table S2. Twin Intraclass and Cross Correlations

	MZ	DZ
Intraclass Correlations		
CU[a] Age 2	.72 (.64, .78)	.41 (.28, .53)
CU Age 3	.63 (.52, .71)	.41 (.27, .52)
NEG Age 2	.88 (.84, .91)	.69 (.60, .75)
NEG Age 3	.84 (.78, .88)	.63 (.53, .70)
Cross-Correlations		
CU 2—NEG 2	.32 (.23, .41)	.22 (.12, .31)
CU 3—NEG 3	.30 (.20, .39)	.19 (.09, .29)
NEG 2—CU 3	.26 (.17, .35)	.17 (.07, .27)
CU 2—NEG 3	.31 (.22, .39)	.17 (.07, .27)
NEG 2—NEG 3	.64 (.58, .70)	.55 (.47, .62)
CU 2—CU 3	.41 (.32, .49)	.27 (.17, .37)

Note: CU=Callous-Unemotional Behaviors;

NEG=negative parenting; MZ=monozygotic; DZ=dizygotic.

[a]CU scores residualized for sex and conduct problems.

Table S3. Fit Statistics for Cross-Lagged Models

CU^a and Negative Parenting

Model	-2LL	df	χ^2	Δdf	p	AIC	RMSEA	$\Delta\chi^2$	Δdf	p
						Overall Fit of Model^b		Relative Fit of Model^c		
Saturated	6304.453	2344								
Full	6397.990	2394	93.537	50	.000	-6.463	.053			
Drop CU stability	6466.014	2395	161.561	51	.000	59.561	.083	68.024	1	.000
Drop NEG stability	6636.638	2395	332.185	51	.000	230.185	.133	238.649	1	.000
Drop CU→NEG	6403.858	2395	99.405	51	.000	-2.595	.056	5.868	1	.015
Drop NEG→CU	6399.689	2395	95.236	51	.000	-6.764	.053	1.699	1	.192
Best-Fit Model	**6404.658**	**2403**	**100.205**	**59**	**.001**	**-17.795**	**.047**	**6.668**	**9**	**.672**

Note: Best fitting model indicated in bold. -2LL=Likelihood Statistic; χ^2=Chi-square fit statistic;

AIC=Akaike's Information Criterion; CU=Callous-Unemotional Behaviors; *df*=Degrees of

freedom;

NEG=negative parenting; POS=positive parenting; RMSEA=Root Mean Square Error of

Approximation.

^{a}CU residualized for sex and conduct problems.

^{b}Overall fit of the model is determined by the difference in -2LL of the model and that of a

saturated model.

^{c}Relative fit of the model determined by the χ^2 difference ($\Delta\chi^2$) between full bivariate ACE
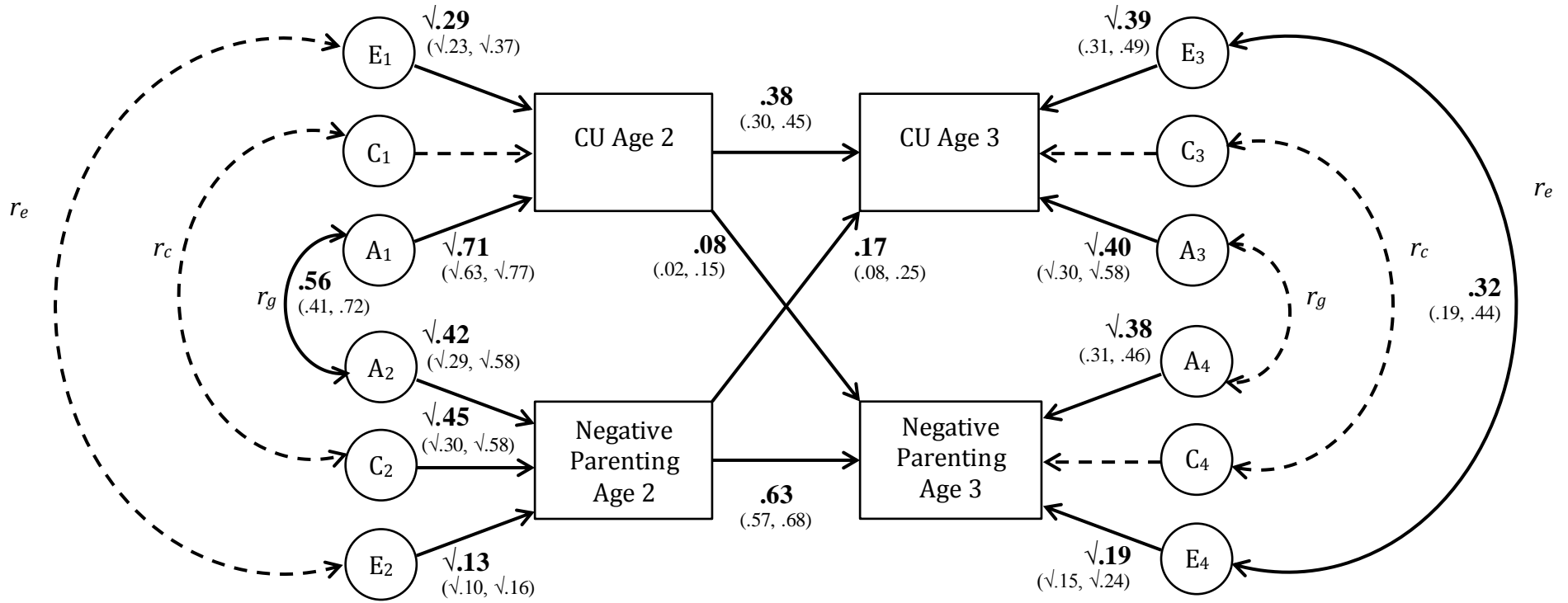
model and reduced model.

Figure S1. Cross-Lagged Results for Negative Parenting and Callous-Unemotional Behaviors without controlling for conduct problems