Standardized effects from the final structural equation model incorporating caregiver-reported harsh punishment, poor self-control, and negative emotionality as predictors of child-reported BPD symptomatology.

West   Tubels assessment   Compare   Control   Control	Ages 5-8	Age 10	rating caregiver-reported harsh punishment, poor self-control, an Ages 10-14	Ages 14-17	Std. β S. E.	р	
Near   Partic assistance     Negation emonation / per   1   1   1   1   1   1   1   1   1			•	•	<u> </u>		0.2
West   Fulfic assistance     Raise   Classing in poor self-control Ages 11-14 (Stope)   Class   Classing in Amount partitioned Ages 11-14 (Stope)   Class   Cla	Wave 1 Public assistance →	Poor self-control (Intercept)			0.072	0.022	0.00
Marcon   Profice selections   Page   Profice selections   Profi	Wave 1 Public assistance →		Negative emotionality Age 11		-0.03	0.019	0.11
Mean   Fulface seasiblence     Read of classing in Part   April 1 (Bittoria)   Co.003   Co.	Wave 1 Public assistance →				0.015		0.74
Mose   Fundament   Mose   Mo	Wave 1 Public assistance →				0.042	0.024	0.08
West   Final   punishment   Personal Programment   Personal Progra	Wave 1 Public assistance →						0.92
Wase   False   Separation   Wase   False   Separation   Wase   S	Wave 1 Public assistance →			BPD symptom severity Age 14 (Intercept)			0.70
Minorly nose							0.3
Minority rose		Harsh punishment (Intercept)		· · · · · · · · · · · · · · · · · · ·			
Microily race =	•						
Minority race -   Change in poor self-control Ages 11-12 (Slopen)   Change in poor self-control Ages 11-14 (Slopen)   Change in poor self-control Ages 11-12 (Slopen)   Change in BPD symptoms ages 11-17 (Slopen)   Change in Change in Daniel Ages 11-14 (Slopen)   Change in Daniel Ages 11-14 (Slopen)   Change in Daniel Ages 11-14 (Slopen)   Change in Daniel Ages 11		r oor oon oonaar (mercopt)	Negative emotionality Age 11				
Minority race -   Change in proof selection of Ages 12-14 (Stope)   Change in Parts purishment Ages 10-14 (Stope)   BPO appropriate severity Age 14 (Intercept)   0.073   0.033   0.000							
Microiry race	*		• • • • • • • • • • • • • • • • • • • •				
Microbin rose							
Minority read			Change in harsh pullishine in Ages 10-14 (Slope)	PPD symptom soverity Age 14 (Intercent)			
Wave 1 Harian purishment   Wave 1 Harian purishment   Poor Self-Control (Intercept)   Poor S	•						
Wave Harsh purishment   Wave Harsh purishment   Wave Harsh purishment   Change in poor self-control Ages 11-12 (Slope)				Rate of change in BPD symptoms Ages 14–17 (Slope)			
West   Harsh pursishment   Wast   Harsh pursishment   Change in poor self-control Ages 10-12 (Stope)							
Wave 1 Harsh purshment     Change in poors eff-control Ages 10-12 (Stope)   0.004   0.003   0.004   0.003   0.004   0.003   0.004   0.003   0.004   0.003   0.004   0.003   0.004   0.003   0.004   0.003   0.004   0.003   0.004   0.003   0.004   0.003   0.004		Poor Self-Control (Intercept)					
Wave H Harsh pursishment   Change in poor self-control Ages 12-14 (Stope)							
Wave Harsh punishment   Wave Harsh punishment   Park   P							
Wave 1   Harsh punishment							0.66
Wase   Floor self-control			Change in harsh punishment Ages 10–14 (Slope)				0.58
Wave   Poor self-control   Poor Self-Control (intercept)   Poor Self-Control (intercept)   Poor Self-Control (intercept)   Negative emotionality Age 11   Poor Self-Control (intercept)   Poor Self-Control (intercept)   Rate of change in poor self-control Ages 10-12 (Slope)   Rate of change in poor self-control Ages 10-12 (Slope)   Rate of change in poor self-control Ages 10-14 (Slope)   Rate of change in Poor self-control Nave   Poor self-control   Poor Self-Control (intercept)   Rate of change in Poor self-control Ages 10-14 (Slope)   Rate of change in Poor self-control Nave   Poor self-control	•			, , , , , , , , , , , , , , , , , , , ,			0.1
Wave   Poor self-Control   Open   Self-Control (Intercept)   Negative emotionality Age 11   Age of change in poor self-control Ages 10-12 (Slope)   Open self-control (Intercept)   Open self-control (Inte	Wave 1 Harsh punishment →			Rate of change in BPD symptoms Ages 14–17 (Slope)	-0.039	0.06	0.51
New Poor self-control	Wave 1 Poor self-control →						< .000
Mare   Poor self-control	Wave 1 Poor self-control →	Poor Self-Control (Intercept)			0.54	0.018	< .000
Mayer   Poor self-control   Rate of change in paors self-control Ages 12-14 (Slope)   Poor self-control Ages 12-14 (Slope)   Poor self-control Ages 12-14 (Slope)   Poor self-control	Wave 1 Poor self-control →		Negative emotionality Age 11		-0.055	0.025	0.02
Rate of change in harsh punishment Ages 10–14 (Slope)   PD symptom severity Age 14 (Intercept)   0.013   0.039   0.074	Wave 1 Poor self-control →		Rate of change in poor self-control Ages 10-12 (Slope)		0.166	0.057	0.00
Wave   Poor self-control   Wave   Regative emotionality   Wave   Poor self-control   Poor self-control   Rate of change in BPD symptoms sevenity Age 14 (Intercept)   0.013   0.039   0.019   0.008	Wave 1 Poor self-control →		Rate of change in poor self-control Ages 12-14 (Slope)		0.08	0.029	0.00
Wave   Negative emotionality	Wave 1 Poor self-control →		Rate of change in harsh punishment Ages 10-14 (Slope)		0.101	0.045	0.02
Wave 1 Negative emotionality - Wave 1 Negative emotionality - Poor Self-Control (Intercept)   Poor Self-Control (Intercept)   Rate of change in poor self-control Ages 10–12 (Slope)   Rate of change in poor self-control Ages 10–12 (Slope)   Rate of change in poor self-control Ages 10–12 (Slope)   Rate of change in poor self-control Ages 10–14 (Slope)   Rate of change in poor self-control Ages 10–14 (Slope)   Rate of change in poor self-control Ages 10–14 (Slope)   Rate of change in poor self-control Ages 10–14 (Slope)   Rate of change in poor self-control Ages 10–14 (Slope)   Rate of change in Poor self-control Ages 10–14 (Slope)   Rate of change in Poor self-control Ages 10–14 (Slope)   Rate of change in Poor self-control Ages 10–14 (Slope)   Rate of change in Poor self-control Ages 10–14 (Slope)   Rate of change in Poor self-control Ages 10–14 (Slope)   Rate of change in Poor self-control Ages 10–14 (Slope)   Rate of change in Poor self-control Ages 10–14 (Slope)   Rate of change in Poor self-control Ages 10–14 (Slope)   Rate of change in Poor self-control Ages 10–14 (Slope)   Rate of change in Poor self-control (Intercept)   Rate of change in Poor self-control Ages 10–14 (Slope)   Rate of change in Poor self-control (Intercept)   Rate of change in Poor self-control Ages 10–14 (Slope)   Rate of change in Poor self-control (Intercept)   Rate of change in Poor self-control	Wave 1 Poor self-control →			BPD symptom severity Age 14 (Intercept)	0.013	0.039	0.74
Wave   Negative emotionality   Poor Self-Control (Intercept)   Rate of change in poor self-control Ages 10-12 (Slope)   BPD symptom severity Age 14 (Intercept)   0.06   0.015   0.016   0.0	Wave 1 Poor self-control →			Rate of change in BPD symptoms Ages 14-17 (Slope)	0	0.061	
Wave 1 Negative emotionality	Wave 1 Negative emotionality	Harsh punishment (Intercept)			0.039	0.019	0.04
Wave 1 Negative emotionality							< .000
Wave 1 Negative emotionality   Rate of change in poor self-control Ages 10–12 (Slope)   Rate of change in poor self-control Ages 12–14 (Slope)   Rate of change in poor self-control Ages 12–14 (Slope)   Rate of change in harsh punishment Ages 10–14 (Slope)   Rate of change in harsh punishment Ages 10–14 (Slope)   Rate of change in BPD symptom severity Age 14 (Intercept)   0.038   0.034	Wave 1 Negative emotionality →	•	Negative emotionality Age 11		0.404	0.017	< .000
Nave 1 Negative emotionality   -   Rate of change in poor self-control Ages 12-14 (Slope)	Wave 1 Negative emotionality →	•	Rate of change in poor self-control Ages 10–12 (Slope)		0.06	0.045	0.1
Wave 1 Negative emotionality	Wave 1 Negative emotionality →	•	Rate of change in poor self-control Ages 12–14 (Slope)		0.012	0.026	0.65
Wave 1 Negative emotionality		•					0.81
March Negative emotionality →   Rate of change in BPD symptoms Ages 14–17 (Slope)   0.022   0.049   0.65		•	(	BPD symptom severity Age 14 (Intercept)			0.2
Harsh punishment (Intercept) → Rete of change in poor self-control Ages 10–12 (Slope)		•					
Harsh punishment (Intercept)			Negative emotionality Age 11	(p-)			
Harsh punishment (Intercept) → Rate of change in poor self-control Ages 12–14 (Slope)							
Harsh punishment (Intercept) → Rate of change in harsh punishment Ages 10–14 (Slope) BPD symptom severity Age 14 (Intercept) 0.076 0.066 0.02 0.02 0.006 0.02 0.007 0.006 0.02 0.007 0.006 0.02 0.007 0.006 0.02 0.007 0.006 0.02 0.007 0.006 0.02 0.007 0.006 0.02 0.007 0.006 0.02 0.007 0.006 0.02 0.007 0.006 0.007 0.006 0.007 0.006 0.02 0.007 0.006 0.007 0.007 0.006							
Harsh punishment (Intercept) → BPD symptom severity Age 14 (Intercept) → 0.076 No.066 No.006 No.071 No.066 No.071 No.066 No.072			• • • • • • • • • • • • • • • • • • • •				
Harsh punishment (Intercept) → Negative emotionality Age 11   Negative emotionality Age 11   Rate of change in BPD symptoms Ages 14–17 (Slope)   0.071   0.066   0.27			rate of change in halon parisonness, agos to 11 (clope)	RPD symptom severity Age 14 (Intercent)			
Poor self-control (Intercept) → Rate of change in poor self-control Ages 10–12 (Slope)   Poor self-control (Intercept) → Rate of change in poor self-control Ages 12–14 (Slope)   Poor self-control (Intercept) → Rate of change in poor self-control Ages 12–14 (Slope)   Poor self-control (Intercept) → Rate of change in harsh punishment Ages 10–14 (Slope)   Poor self-control (Intercept) → Rate of change in harsh punishment Ages 10–14 (Slope)   Poor self-control (Intercept) → Rate of change in harsh punishment Ages 10–14 (Slope)   Poor self-control (Intercept) → Rate of change in be PD symptom severity Age 14 (Intercept)   Poor self-control (Intercept) → Rate of change in BPD symptom severity Age 14 (Intercept)   Poor self-control (Intercept) → Rate of change in BPD symptom severity Age 14 (Intercept)   Poor self-control (Intercept) → Rate of change in poor self-control Ages 12–14 (Slope)   Poor self-cont							
Poor self-control (Intercept)		. , , , ,	Negative emotionality Age 11	Trate of change in Dr B symptoms Ages 14-17 (Glope)			
Poor self-control (Intercept)							
Poor self-control (Intercept) → Rate of change in harsh punishment Ages 10–14 (Slope)   BPD symptom severity Age 14 (Intercept)   0.005   0.059   0.950   0							
Poor self-control (Intercept) → Rate of change in BPD symptom severity Age 14 (Intercept) → Rate of change in BPD symptoms Ages 14–17 (Slope) → 0.067 0.084 0.43 0.43 0.43 0.43 0.43 0.43 0.43 0.4							
Poor self-control (Intercept) → Rate of change in BPD symptoms Ages 14–17 (Slope) → 0.067 0.084 0.43		1 1 1	nate of change in harsh punishment Ages 10–14 (Slope)	PDD symptom soverity Age 14 (Intercent)			
Negative emotionality Age 11 → Rate of change in poor self-control Ages 12–14 (Slope) -0.061 0.022 0.00							
Negative emotionality Age 11 → BPD symptom severity Age 14 (Intercept) 0.078 0.035 0.03 0.03 0.03 0.03 0.03 0.03 0.0		Pour seir-control (Intercept) →	Alexandra and Provide Accordan				
Negative emotionality Age 11 →         Rate of change in BPD symptoms Ages 14–17 (Slope)         0.004         0.05         0.93           Rate of change in poor self-control Ages 10–12 (Slope)         →         BPD symptom severity Age 14 (Intercept)         0.176         0.073         0.03           Rate of change in poor self-control Ages 10–12 (Slope)         →         Rate of change in BPD symptoms Ages 14–17 (Slope)         -0.126         0.073         0.03           Rate of change in poor self-control Ages 12–14 (Slope)         →         Rate of change in BPD symptoms Ages 14–17 (Slope)         -0.016         0.039         0.01           Rate of change in poor self-control Ages 12–14 (Slope)         →         Rate of change in BPD symptom severity Age 14 (Intercept)         -0.012         0.057         0.77           Rate of change in harsh punishment Ages 10–14 (Slope)         →         BPD symptom severity Age 14 (Intercept)         0.078         0.053         0.14							
Rate of change in poor self-control Ages 10–12 (Slope)       →       BPD symptom severity Age 14 (Intercept)       0.176       0.073       0.07         Rate of change in poor self-control Ages 10–12 (Slope)       →       Rate of change in BPD symptoms Ages 14–17 (Slope)       -0.192       0.111       0.01         Rate of change in poor self-control Ages 12–14 (Slope)       →       BPD symptom severity Age 14 (Intercept)       -0.016       0.039       0.1         Rate of change in poor self-control Ages 12–14 (Slope)       →       Rate of change in BPD symptoms Ages 14–17 (Slope)       -0.022       0.057       0.7         Rate of change in harsh punishment Ages 10–14 (Slope)       →       BPD symptom severity Age 14 (Intercept)       0.078       0.053       0.1							
Rate of change in poor self-control Ages 10–12 (Slope)       →       Rate of change in BPD symptoms Ages 14–17 (Slope)       -0.192       0.111       0.00         Rate of change in poor self-control Ages 12–14 (Slope)       →       BPD symptom severity Age 14 (Intercept)       -0.016       0.039       0.1         Rate of change in poor self-control Ages 12–14 (Slope)       →       Rate of change in BPD symptom severity Age 14 (Intercept)       -0.022       0.057       0.7         Rate of change in harsh punishment Ages 10–14 (Slope)       →       BPD symptom severity Age 14 (Intercept)       0.078       0.053       0.1							0.93
Rate of change in poor self-control Ages 12–14 (Slope) → BPD symptom severity Age 14 (Intercept) -0.016 0.039 0.1  Rate of change in poor self-control Ages 12–14 (Slope) → Rate of change in BPD symptoms Ages 14–17 (Slope) -0.022 0.057 0.70  Rate of change in harsh punishment Ages 10–14 (Slope) → BPD symptom severity Age 14 (Intercept) 0.078 0.053 0.14							
Rate of change in poor self-control Ages 12–14 (Slope)         →         Rate of change in BPD symptoms Ages 14–17 (Slope)         -0.022         0.057         0.71           Rate of change in harsh punishment Ages 10–14 (Slope)         →         BPD symptom severity Age 14 (Intercept)         0.078         0.053         0.14			0 , 0 , , , ,				0.08
Rate of change in harsh punishment Ages 10–14 (Slope) → BPD symptom severity Age 14 (Intercept) 0.078 0.053 0.14			• • • • • • • • • • • • • • • • • • • •				0.6
							0.70
Rate of change in harsh punishment Ages 10–14 (Slope) $\rightarrow$ Rate of change in BPD symptoms Ages 14–17 (Slope) 0.036 0.08 0.68							0.14
			Rate of change in harsh punishment Ages 10–14 (Slope) →	Rate of change in BPD symptoms Ages 14–17 (Slope)	0.036	0.08	0.65

Note. Parameter estimates reflect the standardized effect of a predictor (left) on an outcome (right), as indicated by the arrow. Measures between ages 5-8 were based on caregiver report. From ages 10–14, harsh caregivering and poor self-control were caregiver-reported. BPD symptoms in adolescence were child-reported. Age 11 negative emotionality was caregiver-reported. Wave 1 refers to the first wave of data collection, which occurred between ages 5 and 8, depending on the cohort.