

Trajectories of Mental Health in Children Adopted From Foster Care

Austin Blake & Jill Waterman, Ph.D. University of California, Los Angeles

ABSTRACT

A wealth of research has established that adopted youth are at greater risk for impaired mental health than their nonadopted peers, given the host of early life stressors that many experience. However, the specific trajectories of risk and resilience into adulthood remain unclear. The present study examines longitudinal trajectories of mental health in 52 adolescents and young adults adopted from foster care. We investigated the contribution of two major preadoptive risk factors, abuse/ neglect and age of placement, to childhood trajectories of behavior problems. We also utilized these risk factors and behavioral trajectories to predict current outcomes of mental health. Children exposed to abuse/ neglect exhibited higher levels of internalizing problems, but not externalizing problems, into adolescence/young adulthood (YA). In addition, childhood internalizing problems mediated between abuse/neglect and frequency of later marijuana use. Irrespective of risk factors, higher average levels of internalizing and externalizing problems in childhood predicted a number of later mental health outcomes. The effects of age of placement were no longer significant in adolescence/YA, demonstrating the positive impact of stable, nurturing adoptive homes.

INTRODUCTION

- In 2014, 50,000+ youth adopted from foster care¹
- Adopted children show better outcomes than youth who remain in foster care²
- However, as a group, adoptees show higher rates of psychopathology than non-adopted peers³⁴
- Early maltreatment common cause of removal from home → later psychopathology⁵⁶⁷
- Older age at adoption \rightarrow mental health difficulties, especially if adopted after age 48
- Trajectories of mental health into adolescence/ young adulthood remain unclear
 - Abuse/neglect: some studies show stable effects into adulthood, others unstable⁹ 10 11
 - Age of placement: study on present cohort in childhood¹² revealed:
 - Internalizing problems consistently higher in children adopted after 4
 - Externalizing problems increased in youngerplaced children, decreased in older-placed

Goals of study:

- 1. Clarify trajectories of effects of maltreatment
- 2. Extend trajectories of effects of age of placement revealed in childhood¹² into adolescence/YA

METHODS AND MATERIALS

Participants:

- 52 youth (29 males, M age=19.2); 43% history of abuse/neglect, 44% adopted after age 4
- 45 primary parents (73% female, 75% heterosexual, 68% married/cohabitating)

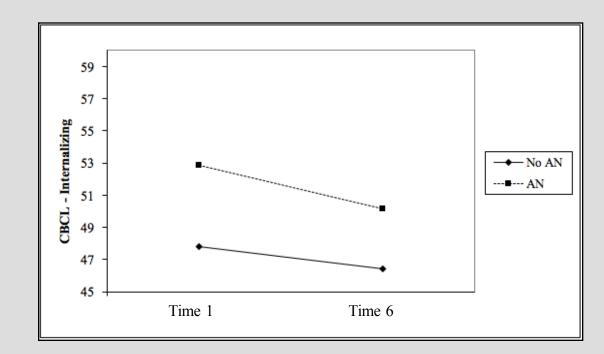
- Families recruited through DCFS seminars for prospective adoptive parents
- Original study: 82 children, 6 yearly visits beginning 2 months post-placement (M age = 3.9)
- Follow-up study: online survey sent to parents and children when youth reached adolescence/YA

Measures:

- Pre-placement variables:
 - Abuse/neglect, age of placement (from court reports and DCFS records)
 - Child Behavior Checklist¹³: parent-report T1-6 of internalizing and externalizing behaviors
- Follow-up variables:
 - BASE 7: mental health symptomology (3 items: anxiety, anger, depression; child report)
 - Psychiatric diagnoses, medications, hospitalization; suicide & runaway attempts (parent report)
 - Substance use (parent/child report)

RESULTS

Childhood Trajectories of Mental Health



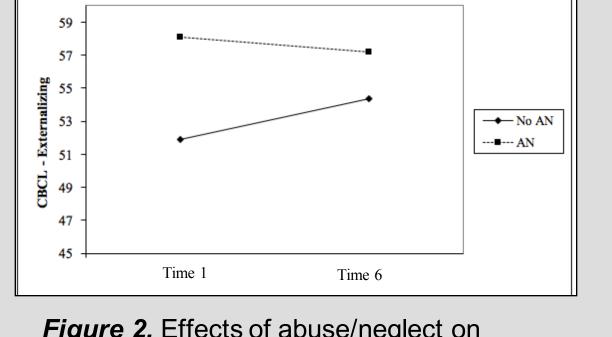


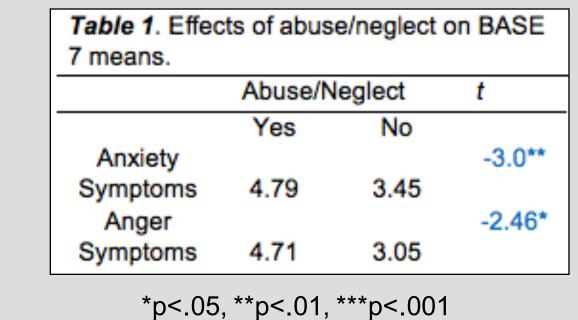
Figure 1. Effects of abuse/neglect on internalizing problems throughout childhood. externalizing problems throughout childhood.

Figure 2. Effects of abuse/neglect on

- Estimated missing data using MMI IMPUTE¹³
- Mixed linear model used to examine interactions between risk factors & time
- Abuse/neglect did not predict change in internalizing symptoms over time (Beta= -.41, t(820.5) = -.71, ns) but did significantly predict change in externalizing symptoms over time (Beta= -1.01, t(628.5) = -2.02, p< .05)

Predictors of Mental Health in Adolescence/YA

Preadoptive risk factors:



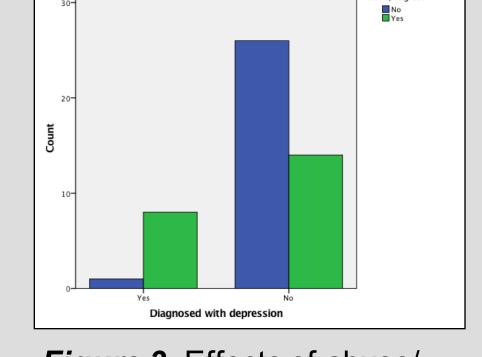


Table 2. Effects of abuse/negle marijuana use (during life).*	ect on freque	ncy of		
	Abuse/	Abuse/Neglect		
	Yes	No		
Never	14%	63%		
Infrequent	50%	16%		

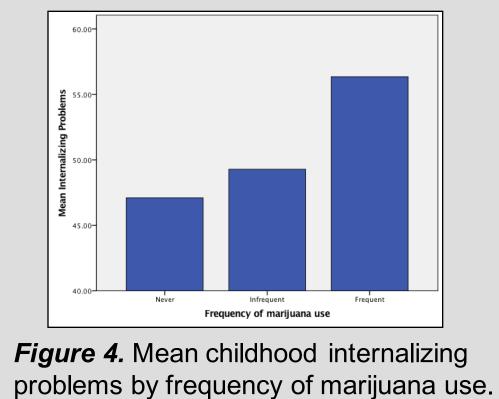
Figure 3. Effects of abuse/ neglect on depression diagnosis.

	Abuse/I	Abuse/Neglect		
	Yes	No		
Depression**	36%	4%		
PTSD*	18%	0%		
Tried marijuana**	74%	37%		

Child behavior problems:

Frequent

	Internalizing	F	Externalizing	F
Tobacco Use (Past Month)		3.72*		4.00
Never	48.0		56.0	
Infrequent	54.9		56.6	
Frequent	57.3		65.9	
Marijuana Use (Past Month)		7.55**		4.38
Never	47.6		54.8	
Infrequent	51.1		54.7	
Frequent	60.1		66.3	
Marijuana Use (During Life)		3.84*		2.34
Never	47.1		53.6	
Infrequent	49.3		57.1	
Frequent	56.3		62.3	
For all statistically significant vari significantly different from those				



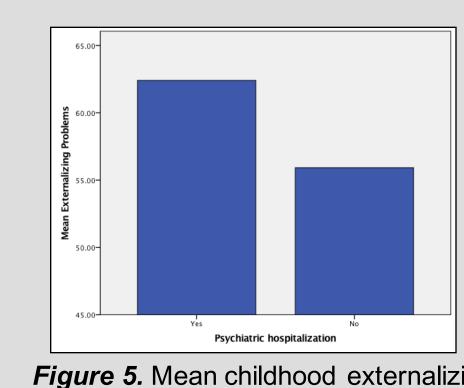


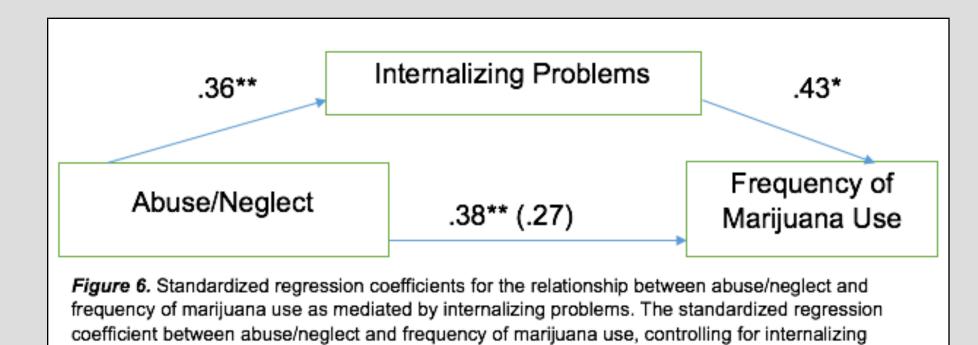
Figure 5. Mean childhood externalizing problems and psychiatric hospitalization.

RESULTS (CONTINUED)

Table 5. Effects of mean CBCL scores on substance use.							
	Internalizing			Extern	Externalizing		
		М	t		М	t	
Tobacco	Υ	52.0	-1.6*	Υ	59.5	-2.09*	
	Ν	48.5		Ν	53.9		
Cocaine	Υ	59.6	-4.83**	Υ	63.0	-2.5*	
	Ν	49.4		Ν	56.6		
Amphetamines	Υ	55.0	-1.61	Υ	66.7	-5.04***	
	Ν	49.7		Ν	55.7		
Ecstasy	Υ	57.4	-2.77*	Υ	61.9	-1.30	
_	Ν	49.5		Ν	56.6		
Heroin	Υ	57.4	-1.73	Υ	69.8	-7.63***	
	Ν	50.3		Ν	56.8		
Drug treatment	Υ	53.3	1.27	Υ	63.8	3.05**	
	N	49.7		N	55.7		

Table 6. Effects of mean CBCL scores on clinical outcomes.						
Internalizing				Externalizing		
		М	t		М	t
Bipolar Dis.	Υ	58.3	1.60	Υ	71.0	6.67***
	Ν	49.4		Ν	55.6	
Other Dis.	Υ	58.5	3.80**	Υ	65.5	1.88
	N	49.4		N	56.2	
ADHD med.	Υ	53.5	1.86	Υ	61.6	2.71*
	Ν	48.4		N	54.1	
Antidepressant	Υ	55.1	2.09*	Υ	59.6	.952
	N	48.9		N	56.6	
Hospitalization	Υ	53.4	1.20	Υ	62.4	2.24*
	N	49.8		N	55.9	
Has run away	Υ	55.7	2.82**	Υ	64.2	3.61**
	N	48.5		N	54.6	

Exploratory Analysis:



DISCUSSION/CONCLUSIONS

- Abused/neglected youth show no heightened externalizing problems by adolescence/YA
- Abused/neglected youth have consistently higher internalizing symptoms (anxiety, PTSD, depression) in childhood & in adolescence/YA
- Both internalizing & externalizing behavior problems in childhood predict substance use in adolescence/YA
- Childhood internalizing problems partially explain link between abuse/neglect & later high marijuana use
 - Targeting internalizing problems in childhood may prevent later problematic marijuana use
- Childhood internalizing/externalizing problems predict other mental health outcomes not related to abuse/neglect or age of placement. Possible other risk factors include genetic susceptibility, prenatal substance exposure, other preplacement risk factors
- In adolescence/YA, non-abused children do not show psychiatric or substance abuse problems
- Effects of later age of placement largely disappear by adolescence/YA for children in adoptive homes