

Protective Experiences and Socioemotional Development in the Context of Childhood Adversity: Foundations of Resilience

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Background

- Negative effects of Adverse Childhood Experiences (ACEs) on mental and physical health have been well documented¹
- Effects of childhood protective factors on healthy development are less understood
- Supportive relationships and enriching resources of Protective and Compensatory Experiences (PACEs) may promote healthy developmental trajectories²

Study Aim

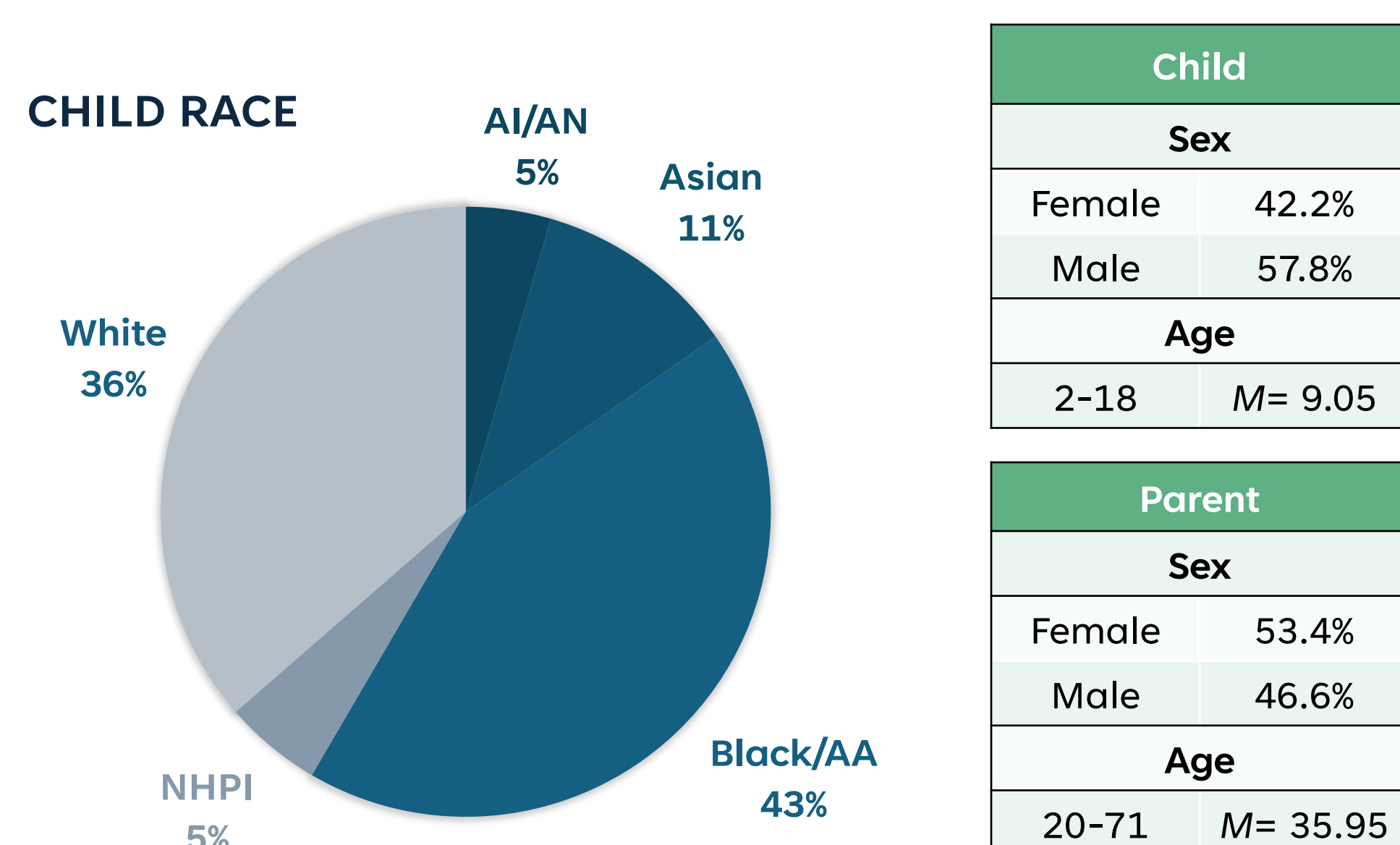
- This study aims to examine the complex relationship between childhood adversity and protective factors across three developmental stages of childhood and clarify patterns of effects in developing children

Method

- Participants ($N = 438$) completed online surveys on their own experiences and their child's experiences
- Parents self-reported on their childhood adversity and current protective experiences, and their child's protective factors
- Participants were recruited via ResearchMatch, offering a geographically diverse sample across the United States

Participant Characteristics

- Most parents were married (79.5%) and held a bachelor's degree (53.4%).



Outcomes Across Developmental Stages

Standardized Coefficients of Parent and Child ACEs and PACEs on Outcomes												
	Early Childhood Ages 2-4 n = 71				Middle Childhood Ages 5-11 n = 243				Adolescence Ages 12-18 n = 124			
	Int	Ext	Pro	Self-R	Int	Ext	Pro	Self-R	Int	Ext	Pro	Self-R
Parent ACEs	-.09	.12	-.09	-.36*	-.12	-.06	.21*	.21	.16	.02	.08	.08
Parent PACEs	-.06	-.07	.17	.29*	-.09	-.11*	.18**	.36***	.11	-.17*	.07	.13
Child ACEs	.46**	.16	.04	.51**	.67***	.55***	-.38***	-.15	.15	.26*	.01	-.22
Child PACEs	-.31*	-.44**	.30	.26	-.22***	-.21**	.30***	.25**	-.47***	-.31*	.53***	.45***

* $p < .05$. ** $p < .01$. *** $p < .001$
Controlled for child sex, child age, and parent education
Int= Internalizing symptoms; Ext= Externalizing symptoms; Pro= Prosocial behavior; Self-R= Self-regulation

Observed Patterns

Early Childhood	Middle Childhood	Adolescence
Protective Experiences (PACEs)		
Internalizing ↓	Internalizing ↓	Internalizing ↓
Externalizing ↓	Externalizing ↓	Externalizing ↓
Prosocial ↑	Prosocial ↑	Prosocial ↑
Self-regulation ↑	Self-regulation ↑	Self-regulation ↑

Measures

	Parent	Child
	All measures reported by biological parent	
Adverse Childhood Experiences ¹ ACEs	Retrospective report of childhood adversity 10 items; dichotomous	Current report of childhood adversity 10 items; dichotomous
Protective and Compensatory Experiences ^{2,3} PACEs	Retrospective report of childhood protective experiences (R-PACEs) 30 items; 5-point Likert	Current report of protective experiences (Ch-PACEs) 10 items; 5-point Likert
Strengths and Difficulties Questionnaire ⁴ SDQ		Internalizing behaviors 10 items; 3-point Likert Externalizing behaviors 10 items; 3-point Likert Prosocial Behavior 5 items; 3-point Likert
Patient-Reported Outcomes Measurement System ⁵ PROMIS		Self-Regulation Frustration Tolerance subscale 6 items; 5-point Likert

PACEs

Protective and Compensatory Experiences

Supportive Relationships

Unconditional love
Trusted mentor
Best friend
Social group
Community involvement

Enriching Environment

Regular routines
Safe living space
Growth opportunities
Physical activity
Hobby



Selected References

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Results

- When including parent and child ACEs in the regression model, child PACEs were significantly associated with:
 - Significantly lower levels of internalizing and externalizing behaviors across all age groups
 - Significantly higher levels of self-regulation and prosocial behaviors in middle childhood and adolescence

Discussion

- Child PACEs were linked with positive outcomes across developmental periods, despite both child and parent ACEs
- Current child PACEs were more consistently linked to outcomes across developmental stages than parent's retrospective PACEs
 - This highlights the importance of modifiable, present-day experiences
- Likert-scale PACEs measures capture variation across developmental stages, offering a more nuanced approach
- Findings reinforce a shift to strengths-based research actively building protective environments and potentially disrupting the intergenerational transmission of trauma
- Results support early screening, prevention, and intervention efforts
- Findings emphasize the importance of various supports for parents who have faced adversity

Limitations

- Cross-sectional design
- Self-report surveys

Future Directions

- Longitudinal research
- Examination of daily PACEs and cumulative effects
- Evaluation of PACEs workshops in a variety of settings