Why Does Children's Temperamental Exuberance Increase their Vulnerability to Externalizing **Symptoms?: A Process-Oriented Approach**



Introduction

• Temperamental exuberance or surgency is characterized as a relatively stable disposition to exhibit high levels of approach to novelty, anticipatory pleasure, and activity

(Stifter & Dollar, 2016)

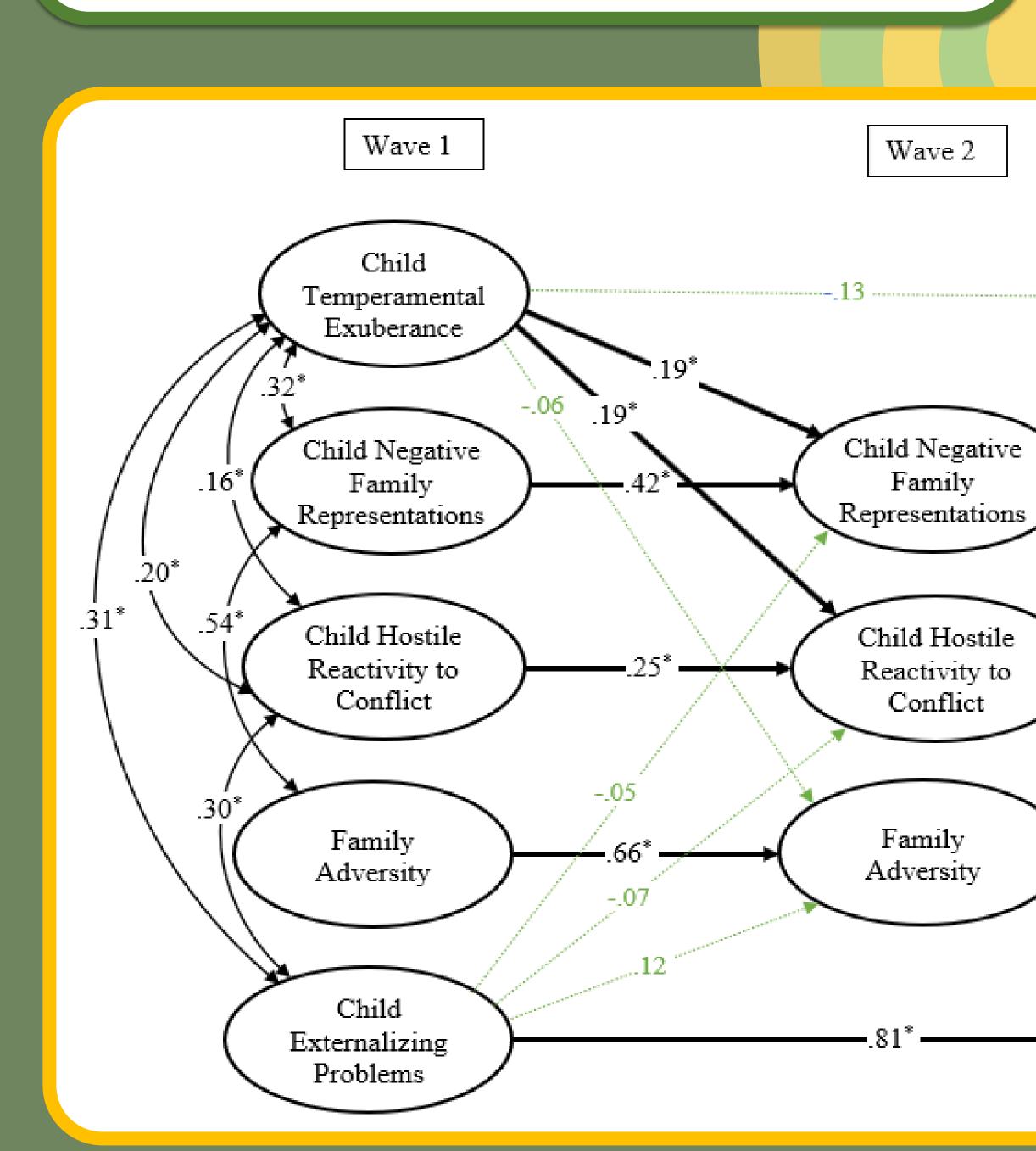
Risk associated with exuberance is modest and inconsistent

(Nielsen et al., 2019)

• Children who are high in exuberance during the toddler and preschool years are at greater risk for concurrent and subsequent externalizing problems during middle childhood (Dollar & Stifter, 2012; He et al., 2016; Morales et

al., 2016)

Limited work has been done to further investigate specific mechanisms that may account for this association



Vanessa T. Cao, Meera D. Patel, Patrick T. Davies, & Melissa L. Sturge-Apple **Dept. of Clinical & Social Sciences in Psychology, University of Rochester**

Examine whether children's negative internal representations of the family, hostile reactivity to family adversity, and exposure to family difficulties mediated the prospective association between their exuberance during preschool and their externalizing symptoms in the early elementary school years

Participants

Sample

- 243 children and their families
- 56% girls
- Mage at W1 = 4.6 years

Ethnicity/Race

- 48% Black
- 43% White
- 9% Multi-racial or Other
- 16% Latino

Socio-economic Status

- Median income: \$36,000
- 69% received public
- assistance

Latent Construe

Temperame **Exuberan**

Negative Fa Representat

> Hostile Reactivity Conflict

> > Family Adversit

Externalizi Symptom

Wave 3 21* Child Externalizing Problems

A SEM examining children's exposure to family adversity, hostile reactivity to parental conflict, and negative family representations as mediating mechanisms in the prospective association between temperamental exuberance and externalizing symptoms across three annual waves of data. All path coefficients are standardized. * *p* < .05.



	Methods				Standardized Loadings of Manifest Indicators onto Latent Constructs		
t ict	Method	Reporter	Wave	Measure Description (Manifest Indicators)	Wave 1	Wave 2	Wave 3
nce	Observation	TC	1	Gift Delay (Activity/Approach)	.66	-	-
	Observation	TC	1	Black Boxes (Activity/Approach)	.63	-	-
	Observation	TC	1	Transparent Box (Activity/Approach)	.79	-	-
	Observation	TC	1	Surprise! (Activity/Approach)	.59	-	-
amily ations	Observation	TC		MSSB-R (Antagonistic Relationships)	.64	.79	-
	Observation	TC	1 & 2	MSSB-R (Child Competence)	73	84	-
	Observation	TC	1 & 2	MSSB-R (Child Overall Insecurity)	.90	.94	-
e	Observation	TC	1 & 2	Interparental Interaction Task (Coercive Control)	.82	.86	-
y to	Observation	TC	1 & 2	Interparental Interaction Task (Hostility)	.79	.80	-
ct	Observation	TC	1 & 2	Interparental Interaction Task (Dominant Reactivity)	.99	.98	-
y ity	Observation	TC	1 & 2	Family Interaction Task (Maternal Parenting)	.77	.70	-
	Observation	TC	1 & 2	Family Interaction Task (Paternal Parenting)	.67	.68	-
	Observation	TC	1 & 2	Family Interaction Task (Family-Level Difficulties)	.84	.97	-
zing ms	Survey	Mother	1 & 3	HBQ (ODD, CP, Overt Hostility, Relational Agg.)	.62	-	.57
	Survey	Partner	1 & 3	HBQ (ODD, CP, Overt Hostility, Relational Agg.)	.55	-	.51
	Survey	Teacher	1 & 3	HBQ (ODD, CP, Overt Hostility, Relational Agg.)	.49	-	.53

Conclusions

- Mediational paths examining children's hostile reactivity and their negative internal representations were significant
 - Informs and refines theoretical models such as top-down and bottom-up regulation processes, mood congruent models, schema-congruent models, social learning, family system theories, and the revised version of emotional security theory
- No evidence for mediational role of increased family adversity
- Identification of negative family representations and hostile reactivity to family adversity as risk mechanisms may also offer new clinical opportunities for interrupting the pathogenic cascades

Acknowledgements

This research was conducted at the Mt. Hope Family Center and was supported by the Eunice Kennedy Shriver National Institute of Child Health and Human Development fellowship R01 HD065425 awarded to Patrick T. Davies and Melissa L. Sturge-Apple. We are grateful to the children, parents, and staff who participated in this project.



Rochester Center for Research on Children & Families