# Cycles of Violence: Examining Mental Health Mechanisms in Violence

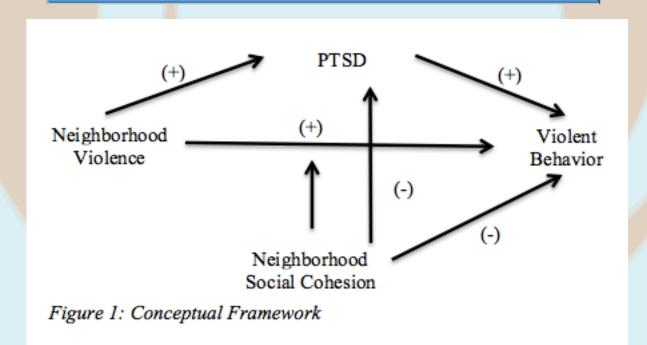


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# **Background**

- Residing in a community with high levels of violence relates to negative outcomes including increased interpersonal violence (as in Latzman et al. 2005; Romano et al. 2005; Wright et al. 2011).
- The social disorganization tradition explains this relationship as a function of neighborhood characteristics (as in Bursik and Grasmick 1993; Sampson et al. 1997).
- The purpose of this study is to examine how psychological states can affect violence.
- By integrating the stress and coping perspective, I conceptualize that continued exposure to violence in the neighborhood leads to resource depletion placing the individual at increased risk for PTSD (Baumeister et al. 1998; Pearlin 1999).
- The hyper-arousal and reactivity characteristic of PTSD thus increases the individual's violent acting out.

# **Conceptual Model**



- Data from the Collaborative Psychiatric Epidemiology Surveys (CPES) are used to examine this proposed relationship (Alegria et al. 2001-2003).
  - Measures
  - Violent behavior (sum scale).
  - Neighborhood violence (standardized scale).

**Data and Measures** 

• The PTSD (dummy).

†  $p \le .10$ ; \* $p \le .05$ ; \*\* $p \le .01$ ; \*\*\* $p \le .001$ 

- Trauma Exposure (log of unique traumatic experiences).
- Control variables: age, sex, race (ref = white), education (ref = less than high school), and prior violence.

#### Results

	Model 1	Model 2	Model 3	Model 4
Neighborhood violence	1.124 ***	1.126 ***	1.121 ***	1.124 ***
	(.029)	(.030)	(.031)	(.031)
Trauma Exposure		1.220 ***		1.219 ***
		(.027)		(.027)
Social Cohesion			.951 **	.953 **
			(.017)	(.017)
Constant	.263 ***	.189 ***	.263 ***	.190 ***
	(.047)	(.034)	(.047)	(.034)
$\mathbb{R}^2$	.059	.077	.060	.078
$\chi^2$	257.71 ***	320.36 ***	263.19 ***	326.26 ***

## **Multivariate Results**

Table 2: Coefficients and standard errors of OLS models predicting violent behavior

	Zero order	Model 1	Model 2	Model 3	Model 4	Model 5
Neighborhood violence	.018 **	003	005 ***	019 ***	.033 **	.031 **
_	(.005)	(.005)	(.005)	(.005)	(.009)	(.009)
Age	014 ***	013 ***	013 ***	013 ***	013 ***	013 ***
	(.001)	(.001)	(.001)	(.001)	(.001)	(.001)
Black	004	270***	265 ***	268***	272***	267***
	(.025)	(.029)	(.029)	(.029)	(.029)	(.029)
Hispanic	449 ***	728 ***	712 ***	242 **	227 **	218 ***
•	(.026)	(.036)	(.036)	(.058)	(.058)	(.058)
Asian	601 ***	688 ***	667	070	066	052
	(.019)	(.024)	(.024)	(.052)	(.052)	(.052)
Other	.691 ***	.397 ***	.383 **	.399 ***	.399 ***	.385 **
	(.144)	(.116)	(.116)	(.116)	(.117)	(.116)
Sex	.106 ***	.093 ***	.114 ***	.098 ***	.098 ***	.118 ***
(ref = female)	(.021)	(.025)	(.025)	(.025)	(.025)	(.025)
Income	001	.0003	0004	.0004	.0004	0003
	(.0002)	(.0003)	(.0003)	(.0003)	(.0003)	(.0003)
High School	.088 **	209 ***	207 ***	233 ***	231 ***	222 ***
	(.032)	(.046)	(.047)	(.047)	(.047)	(.047)
Some College	042	304 ***	306 ***	319 ***	317 ***	312 ***
	(.029)	(.047)	(.048)	(.048)	(.048)	(.048)
College	177 ***	325 ***	331 ***	349 ***	347 ***	342 ***
	(.028)	(.047)	(.048)	(.048)	(.048)	(.048)
Prior violence	.499 ***	.405 ***	.399 ***	.401 ***	.398 ***	1.389 ***
	(.030)	(.029)	(.029)	(.029)	(.029)	(.029)
PTSD	.433 ***		.278 ***			.268 ***
	(.056)		(.051)			(.050)
Social Cohesion	058 ***			054 ***	057 ***	056 ***
	(.001)			(.004)	(.004)	(.004)
Neighborhood violence	(1001)			(,	007 ***	007 ***
* Social Cohesion					(.001)	(.001)
Constant		1.622 ***	1.422 ***	1.472 ***	1.474 ***	1.428 ***
		(.124)	(.076)	(.075)	(.075)	(.076)
R <sup>2</sup>		.208	.213	.223	.224	.589
F		119.70 ***	122.49 ***	190.06 ***	178.46 ***	357.41 ***
n = 15,339						

note: standard error in parenthesis.  $p \le .10; p \le .05; p \le .01; p \le .001$ 

# **Summary**

- •Neighborhood violence predicts both individuals' violent behavior and PTSD diagnosis.
- •PTSD diagnosis relates to increased violence.
- •Stronger social support networks are negatively related to average neighborhood violence.

#### Conclusion

- •Living in a violent neighborhood increases the probability of violent behavior.
- •Psychological well-being is tied to:
  - Healthier neighborhood social conditions.
  - •Decreased probability of engaging in violence.
- •Strong social networks moderate the effect of neighborhood conditions.

### **Limitations/Future Research**

- The data are cross sectional
- Future exploration:
  - Examine relationships longitudinally.
  - Incorporate individual level controls.
  - Explore the nature of the causal relationship between individual violence and neighborhood violence.

This research was supported in part by the Center for Family and Demographic Research, Bowling Green State University, which has core funding from the *Eunice* Kennedy Shriver National Institute of Child Health and Human Development (P2CHD050959).