Environmental stressors are associated with acute cortisol and emotional stress responses in youth with chronic medical conditions (CMC).

Affective, Physiological, and Environmental Stress **Among Adolescents with Chronic Medical Conditions**

INTRO

increased stressors that influence HPA axis sensitivity and ANS responses. Physiological responses to acute stress are associated with negative affect responses. Environmental stressors may exacerbate stress effects. Aim: Investigate influence of environmental stressors on affective and physiological responses among youth with and without CMC

Youth with CMC may be at-risk for

METHODS

N = **141** (73 CMC, 68 matched by age and gender); Mage = 14.4 years

 Data collection at two time points (six months apart)

Affective Stress: Profile of Mood

States (POMS)

Physiological Stress: Salivary cortisol **Environmental Stress:** Neighborhood

severity via Life Stress

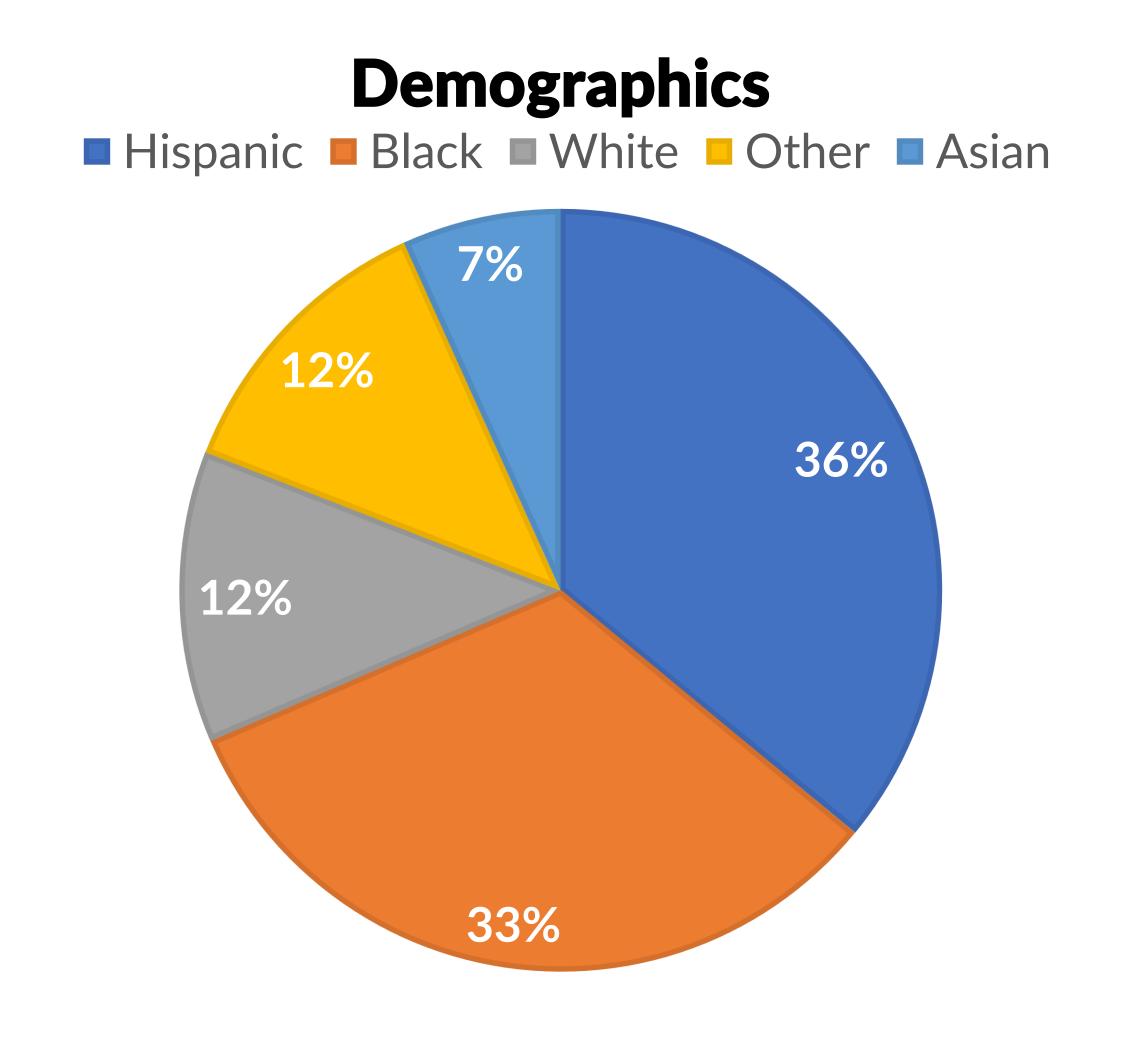
Interview (Rudolph & Hammen, 1999) & census tract crime data

RESULTS

Among youth with CMC:

- More neighborhood stress associated with more anxiety AND less positive affect
- Higher overall crime associated with lower peak cortisol AND more negative affect change

Associations between neighborhood stress and anxiety (z = -1.886, p = .03) and between overall crime and peak cortisol (z = -1.846, p = .03) significantly differed for youth with and without CMC



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Crime

Affective and Cortisol Stress Responses

Correlations, Youth with CMC

	1.	2.	3.	4.	5.
1.	_				
2.	392*	-			
3.	287	.793**			
4.	.424*	725**	664**	-	
5.	.156	.074	.030	.019	-
6.	286	.198	.358*	232	377**
* p < 0.05 ** p < 0.01					

- - 1. Neighborhood severity
- 2. Anxiety change
- 3. Negative affect change
- 4. Positive affect change
- 5. Peak cortisol
- 6. Number of overall crimes







