

The State of Obesity 2019

Early Life Adversity and Growth Trajectory

Vital Village Network

2019 TFAH Congressional Briefing
February 27, 2019
Washington, DC

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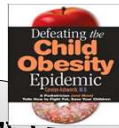


Boston University School of Medicine



The Shifting Landscape of Childhood Obesity

Fighting the Childhood Obesity Epidemic



In Obesity Epidemic, Poverty an Ignored Contagion
By Gina Bellafante



June 18, 2013

A.M.A. Recognizes Obesity as a Disease
By ANDREW POLLACK

The American Medical Association has officially recognized obesity as a disease, a move that could induce physicians to pay more attention to the condition and spur more insurers to pay for treatments.





AN UNCONVENTIONAL FOCUS

Early Life Adversity as a Life course Social Determinant of Healthy Weight



Early Life Adversity

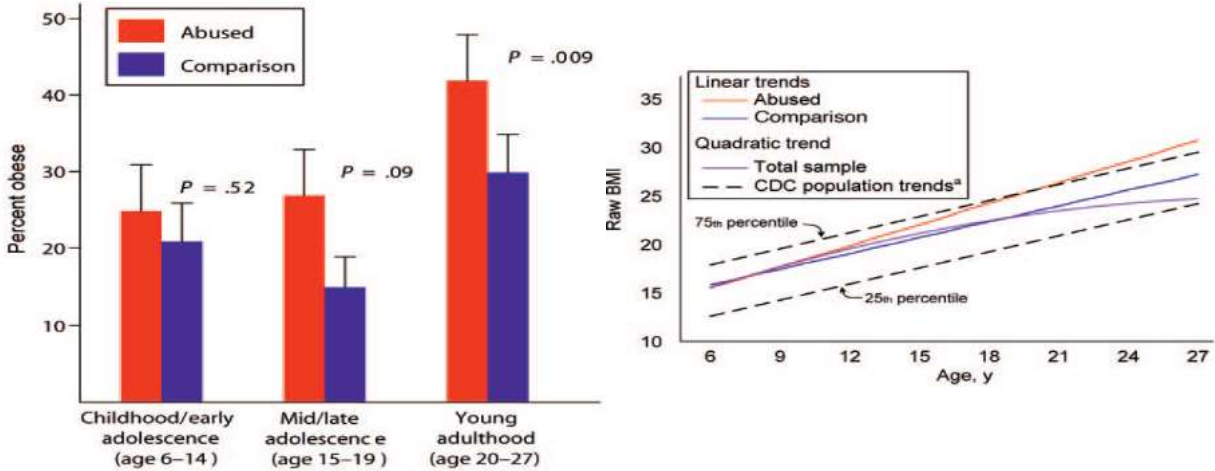


Family



Neighborhood

Obesity Risk in Female Victims of Childhood Sexual Abuse: A Prospective Study



Noll, Zeller, Trickett, Putnam, *Pediatrics*, 2007

- Prenatal smoking
- Low birth weight
- Preterm birth



- Child Obesity
- BMI trajectory
- Age of Menarche

- BMI trajectory
- Hypertension
- Ammenorrhea
- Infertility risk
- Mental Health
- Smoking



- Depression
- PTSD
- Fibroids
- Adult Obesity

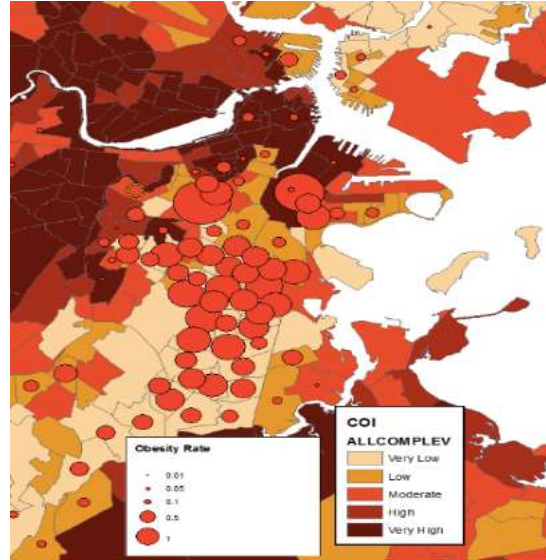
Boynton-Jarrett et al 2008; Jun et al 2008; Jun et al 2012; Boynton-Jarrett et al 2013; Harville et al 2013; Suglia et al 2015; Jacobs et al 2015
 Jun et al 2008; Harville, Boynton-Jarrett et al, 2010

Boynton-Jarrett et al 2010; Suglia et al 2012; Boynton-Jarrett et al 2013; Suglia et al 2013

Boynton-Jarrett et al 2011; Boynton-Jarrett et al 2012; Harville, Jacobs, Boynton-Jarrett, 2015 Image courtesy of *The Life Cycle of a Human*

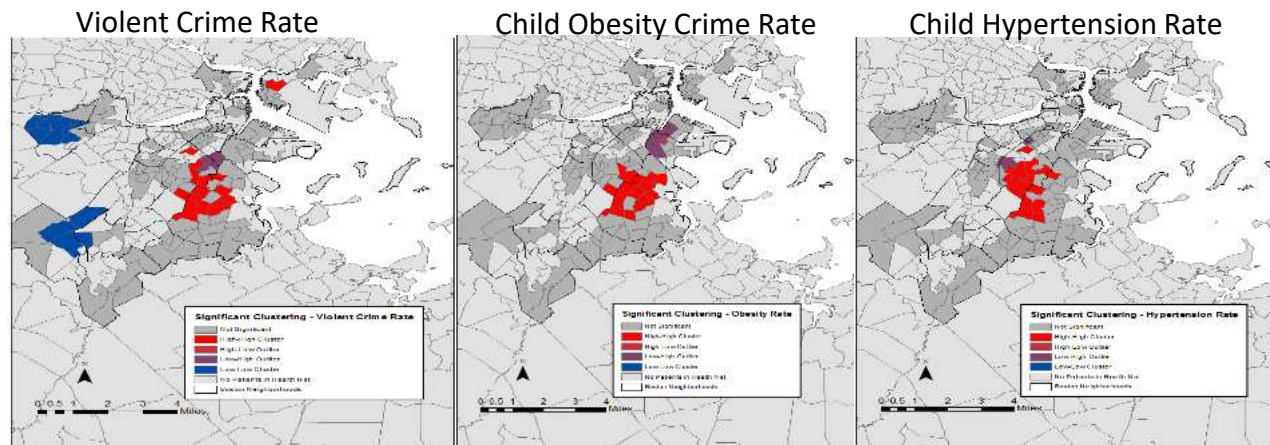
Child Opportunity Index & Obesity Rate

- BMC aggregate EMR data on obesity for children ages 3-18 years old.
- Rates of obesity correlate with very low opportunity (COI), but outliers are present.
- Census tract violent crime is significantly associated with rates of childhood obesity.



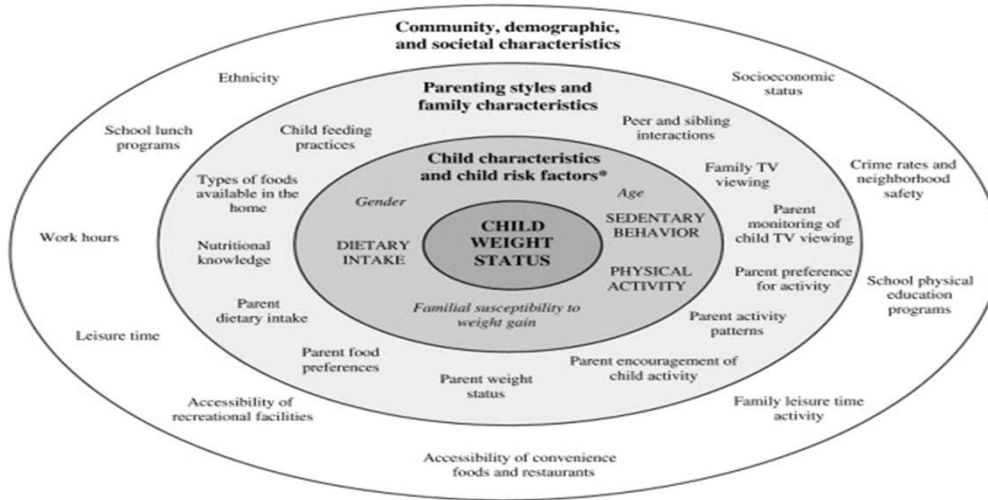
www.vitalvillage.org

Spatial Analysis



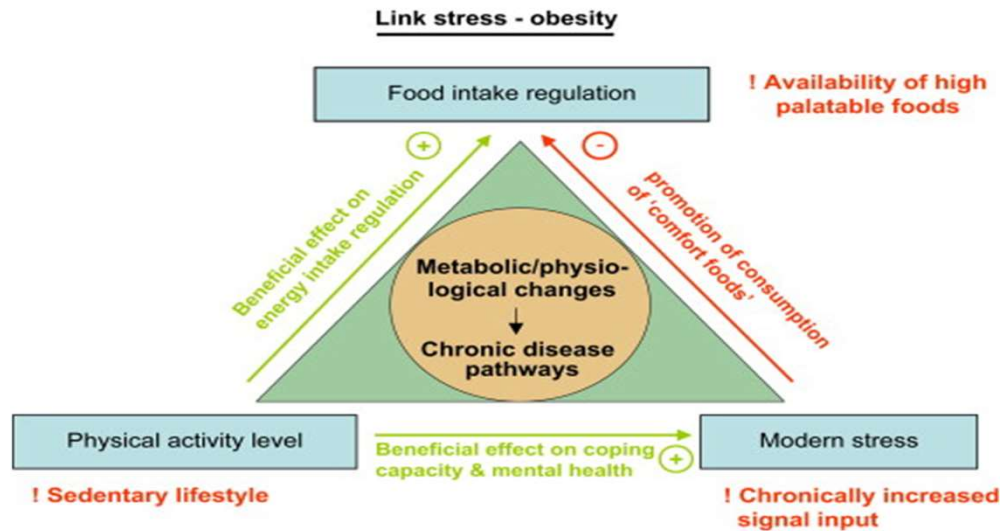
Local Moran's I Spatial analysis with False Discovery Rate adjustment

Ecological Model of Childhood Overweight

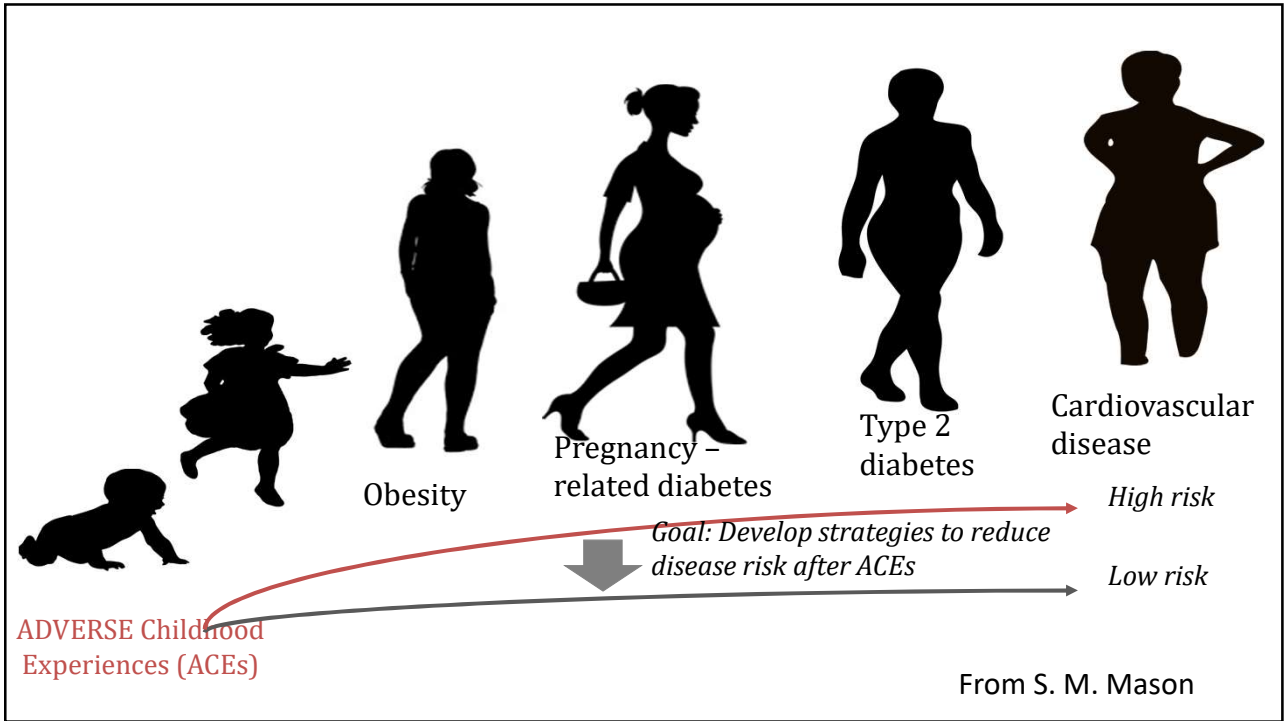
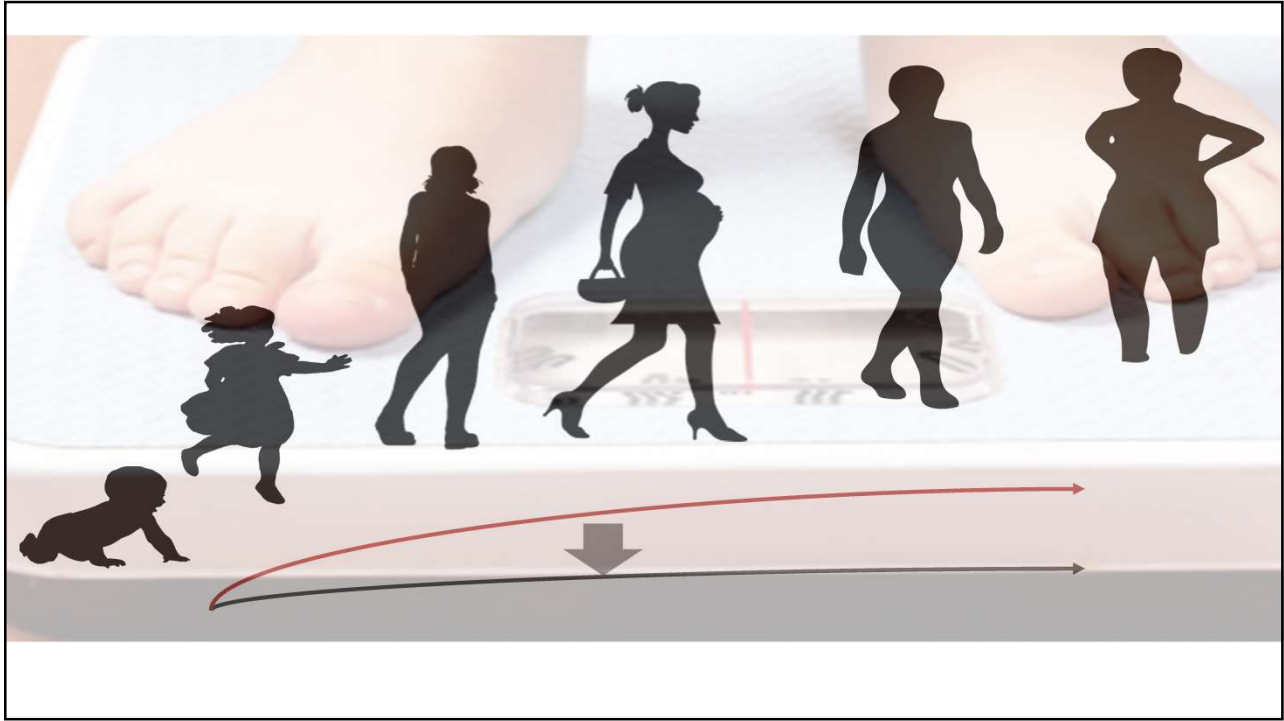


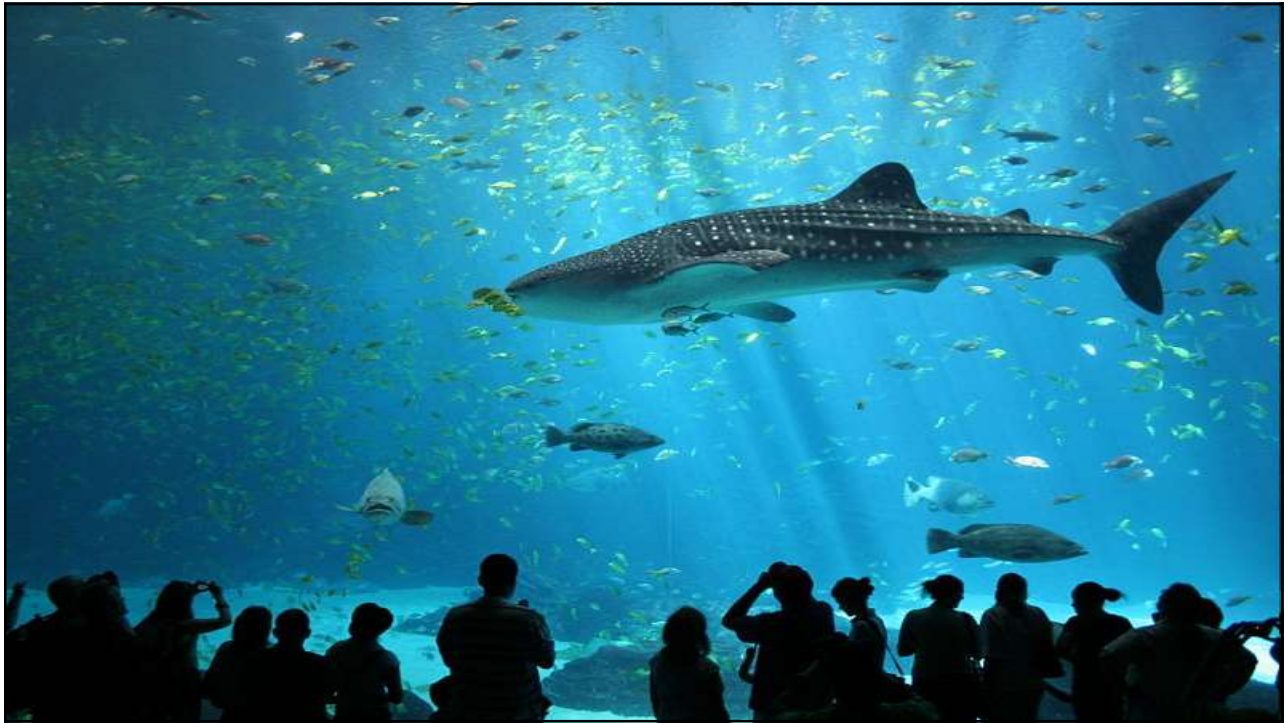
Davison and Birsch, 2001

Linking Stress and Obesity



De Vriendt, Moreno, De Henauw, 2009

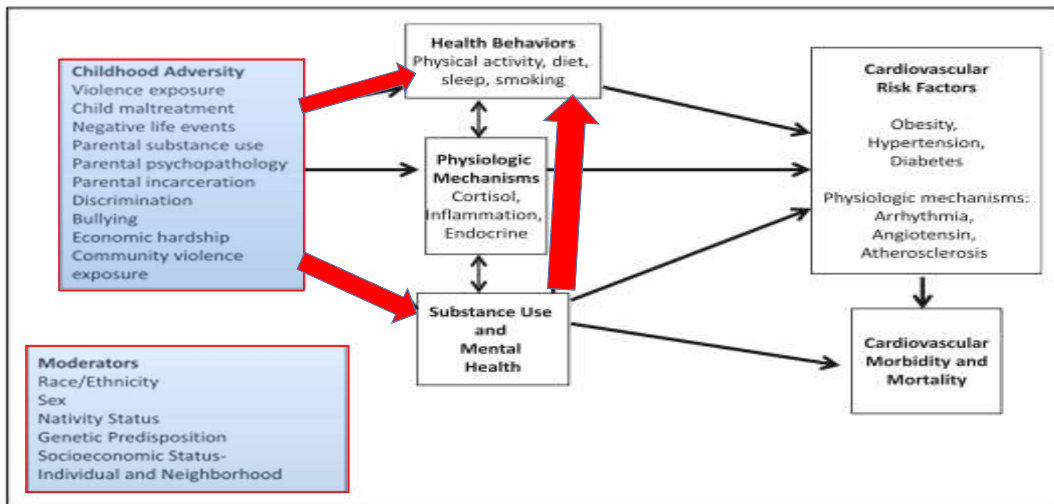




Circulation



Childhood and Adolescent Adversity and Cardiometabolic Outcomes: A Scientific Statement From the American Heart Association



Translating Research to Practice

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Child Maltreatment's Heavy Toll:

The Need for Trauma-Informed Obesity Prevention

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