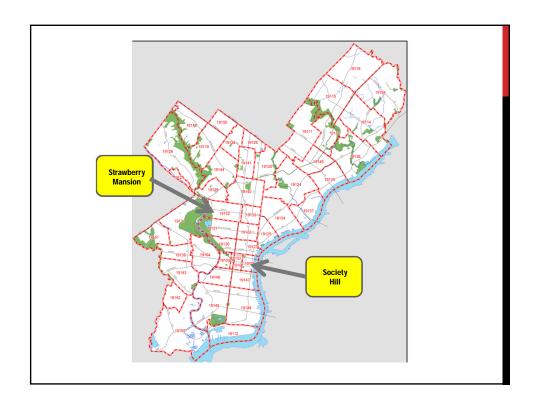
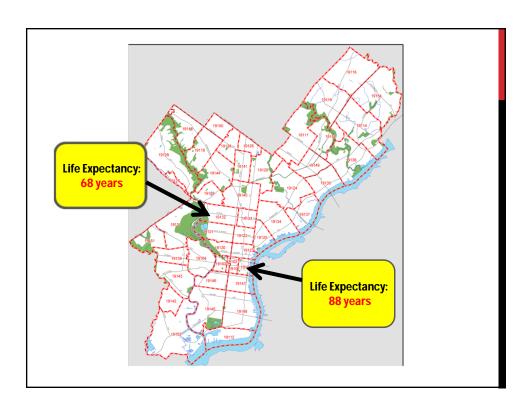
# RACISM, ADVERSITY, AND CHILD HEALTH

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### **GOALS**

- Discuss racism & discrimination as a psychosocial stressor that may contribute to poor health
- Review the data on the relationship between racism and child health
- Determine if racism is a common occurrence in the lives of children of color
- Discuss potential mechanisms through which racism may contribute to suboptimal health
- Propose racism as an Adverse Childhood Experience (ACE)

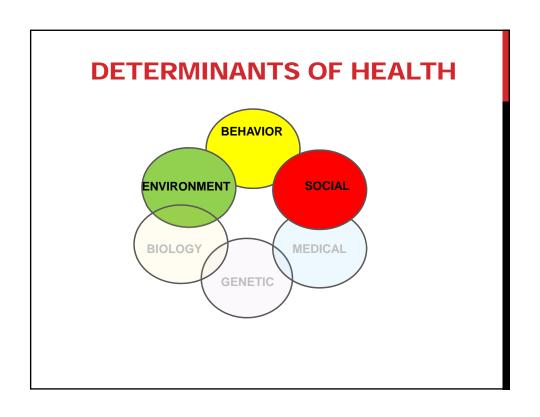


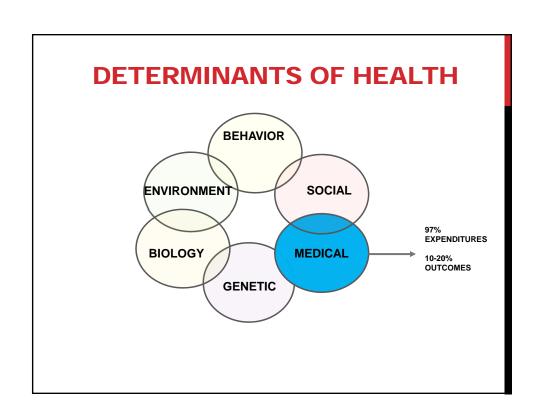


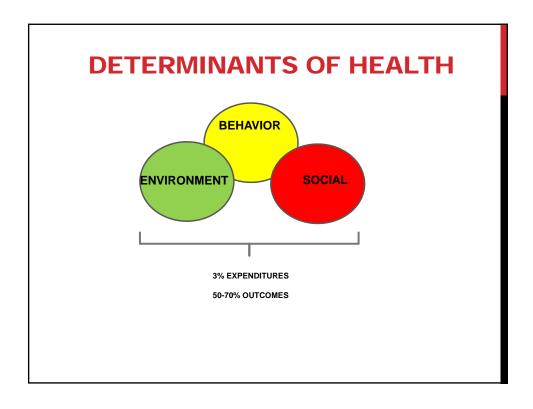
# 2.5 MILES...20 YEARS WHY???

- Income and Education
- Housing
- Neighborhood safety
- Access to exercise
- · Access to healthy food
- Toxic exposures (lead...)
- Access to transportation (to get to jobs)
- · Access to quality preventive health care

# DETERMINANTS OF HEALTH BEHAVIOR SOCIAL BIOLOGY MEDICAL GENETIC







### **RACISM**

- Negative beliefs, attitudes, and actions resulting from categorizing individuals or groups based on phenotype, heritage, or culture.
  - Prejudice: Beliefs, attitudes, assumptions
  - Discrimination: Actions and behaviors

### **LEVELS OF RACISM**

- Interpersonal
- Structural
- Internalized

# DOES RACISM AFFECT CHILDREN'S HEALTH?

40 papers found in medical and social science literature

- 8: Birth outcomes (prematurity, LBW)
- 4: Cardiovascular health
- 2: Metabolic disease
- 26: Behavioral /Mental health

Pachter LM, Garcia Coll CG. J Develop Behav Pediatr 2009

# ARE PERCEPTIONS OF RACISM COMMON IN CHILDREN?

### Study of 277 children in two northeast cities

- Between 7-18 yrs of age
  - 85 African American
  - 104 Latino (mostly Puerto Rican)
  - 20 West Indian/Caribbean
  - 53 Multiracial/Multicultural

Pachter, Bernstein, Szalacha, Garcia Coll. Health & Social Work, 2010

### **ITEMS**

"Watched closely or followed around by security guards or clerks at a store or the mall"

"People hold their bags tight when you pass them"

"Teachers assume you' re not smart or intelligent"

"Got poor or slow service at a restaurant"

"Someone made a bad or insulting remark about your race, ethnicity, or language"

"Watched more closely by security at school"

"Were treated unfairly by a police officer"

# HOW MANY PERCEIVED RACIAL DISCRIMINATION IN AT LEAST 1 OF 24 SITUATIONS?...

8%

27%

**52%** 

69%

88%

HOW MANY PERCEIVED RACIAL DISCRIMINATION IN AT LEAST 1 OF 24 SITUATIONS?...

88% (245 of 277)

# ARE PERCEPTIONS OF RACISM COMMON IN CHILDREN?

- 88% had at least 1 experience
- Average number of experiences: 6/24
- 12% answered at least ½ of the questions positively

# DOES RACISM AFFECT HEALTH? • Relationship between racism & depressive symptoms in children • 52 minority youth (9-18 years) RACISM 379\*\* DEPRESSIVE SX. SELF ESTEEM

# RACISM & MENTAL HEALTH IN TEENS

- 1170 African American & Afro Caribbean youth (13-17)
- 85% experienced discrimination
- Discrimination associated with
  - Major depression
  - Anxiety
  - · Social phobia

Pachter, Caldwell, Jackson, Bernstein. J Racial Eth Health Disparities, 2017

# **HOW** DOES RACISM EFFECT HEALTH?

- MACRO:
  - Segregation → increased exposure
    - · Environmental toxins
    - Inadequate transportation
    - Food deserts
    - Violence
    - Safe places to exercise

# **HOW** DOES RACISM EFFECT HEALTH?

- MACRO:
  - Structural Racism→ resource inequity
    - Jobs
    - Education
    - Health care
    - Justice

# **HOW** DOES RACISM EFFECT HEALTH?

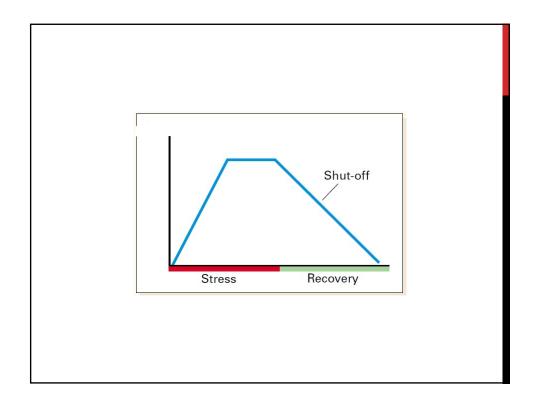
- INTERMEDIATE LEVEL:
  - Inter-personal Racism→ psychological distress

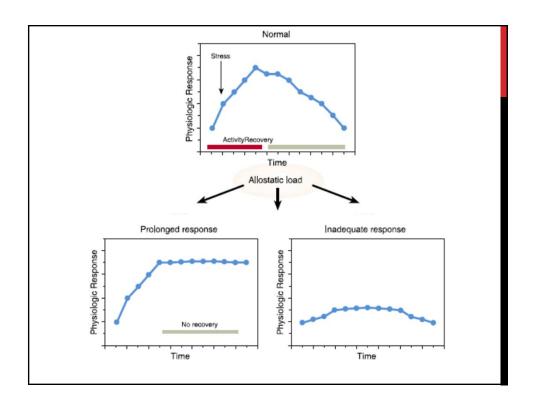
# **HOW** DOES RACISM EFFECT HEALTH?

- MICRO LEVEL:
  - Psychosocial stress→ physiological dysfunction

Racism is a chronic psychosocial toxic stressor that can cause dysregulation of normal physiology and biology

(Allostatic load)





### EFFECTS OF TOXIC STRESS-ALLOSTATIC LOAD

# Stress hormones remain high, and may burnout (dysregulated)

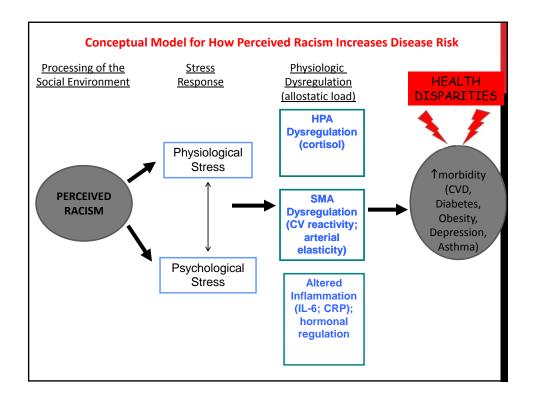
- Shrinkage of nerve cell in the brain (amygdala, hippocampus, prefrontal cortex)
  - Emotional regulation
  - Executive function (attention, cognitive flexibility, problem solving, working memory...)
- Poor regulation of immunity, inflammation, metabolism, growth
- Epigenetic changes (methylation, telomere length)

### **ALLOSTATIC SYSTEMS**

- CORTISOL
- INFLAMMATION
- IMMUNITY
- METABOLISM



- **Diabetes**
- Obesity
- Asthma
- CV Disease
- Depression

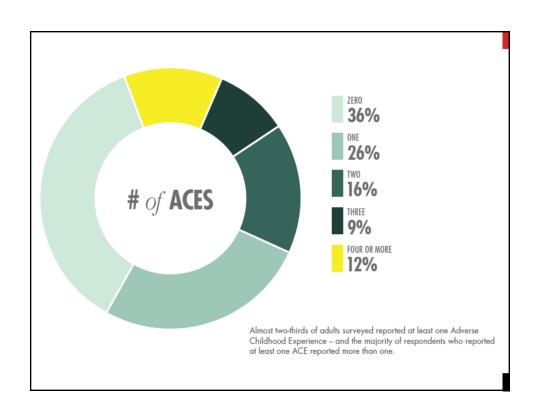


The effects of racism can have health consequences both during childhood and throughout the lifecourse into adulthood

Racism as an Adverse Childhood Experience (ACE)

### **KAISER (SAN DIEGO) ACE STUDY**

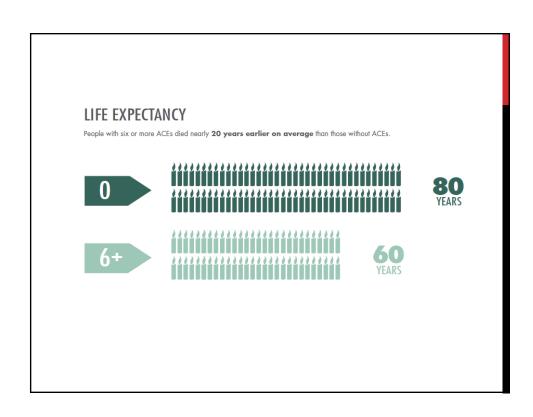
- 17,000 adults
- Childhood stressors
  - · Physical, emotional, sexual abuse
  - · Physical, emotional neglect
  - · Parental mental illness
  - Family interpersonal violence
  - Substance use
  - Divorce/separation
  - Incarcerated relative

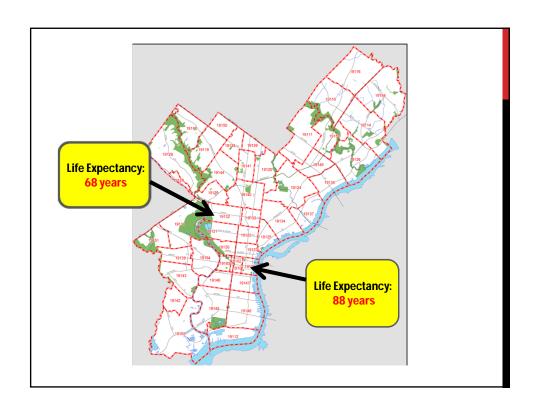


### **KAISER ACE STUDY**

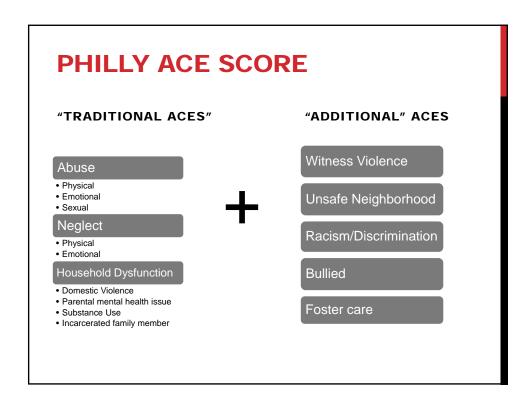
## More Adverse Childhood Experiences, more health problems as adults:

- Mental health
- Risk taking behaviors
- Reproductive health (early pregnancy, STI)
- Victimization
- Physical health/chronic illness
  - Heart disease
  - Cancer
  - Stroke
  - Emphysema
  - · Autoimmune disease
  - Headaches









# PHILADELPHIA ACE PROJECT

- Follow up telephone interview of adults in the Southeastern Pennsylvania Household Health Survey
  - 1784 interviews
- ACE questions and other information

ACEs in Philly vs. Original Kaiser Sample		
	Kaiser Sample	Philly Sample
TRADITIONAL ACES		
Emotional abuse <sup>†</sup>	10.6%	33.2%
Physical abuse*†	28.3%	35.0%
Sexual abuse*†	20.7%	16.2%
Physical neglect*	14.8%	19.1%
Emotional neglect*	9.9%	7.7%
Substance using household member*	26.9%	34.8%
Mentally ill household member*	19.4%	24.1%
Witnessed domestic violence*†	12.7%	17.9%
Incarcerated household member*	4.7%	12.9%
ADDITIONAL ACES		
Witnessed violence	-	40.5%
Experienced discrimination	-	34.5%
Unsafe neighborhood	-	27.3%
Experienced Bullying	-	7.9%
Lived in foster care	-	2.5%

### **SUMMARY**

- Racism is a stressor that's commonly experienced by minority children and youth
- There's a small but growing literature on the association between perceived racism and child health outcomes
- Racism can be conceptualized as a toxic stressor that contributes to allostatic load (physiologic dysregulation) and subsequent illness
- The illnesses that are linked to this physiologic dysregulation are the same illnesses that show racial and ethnic disparities
- Racism experienced in childhood should be thought of as an Adverse Childhood Experience that can affect health and wellbeing throughout the lifecourse

### **ADVERSITY > OUTCOMES**

## **ASSETS/ADVERSITY OUTCOMES**

- FAMILY
- PEERS/FRIENDS
- OTHER ADULTS
- COMMUNITY
- NEIGHBORHOOD
- SOCIAL CAPITAL
- + COPING STYLE
- "GRIT"
- LOCUS OF CONTROL