


DISCLOSURES:

- Laura Montgomery-Barefield, M.D. : None
- Kathy Scott-Gurnell, M.D. : None

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THE BODY KEEPS SCORE
ADVERSE CHILDHOOD
EXPERIENCES (ACE), RACIAL
TRAUMA AND IT'S SEQUELAE


LAURA MONTGOMERY-BAREFIELD, M.D.
KATHY SCOTT-GURNELL, M.D.

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GOALS AND OBJECTIVES

- Define the social determinants of health (SDOH)
- Discuss how SDOH and adverse childhood experiences (ACE) impact health and well-being
- Identify the impacts of bias and racism on healthcare, and their roles as risk factors for exposure to culturally-informed ACE (C-ACE)
- Describe the economic effects and health outcomes associated with C-ACE
- Recognize the role of managed care in influencing pertinent changes in care that can help to decrease C-ACE

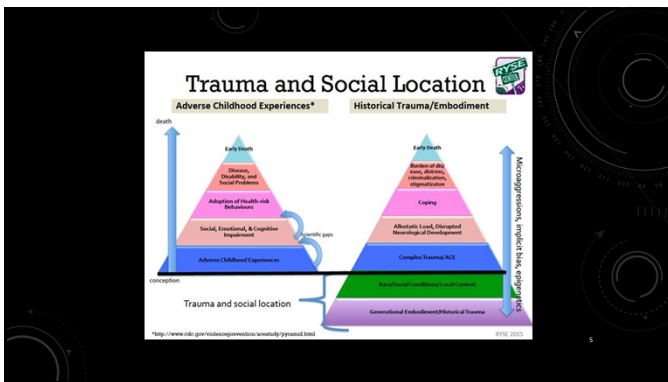
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DEFINITION OF TRAUMA

- "Individual trauma results from an event, series of events, or set of circumstances that is *experienced* by an individual as physically or emotionally harmful or life threatening and that has lasting adverse effects on the individuals functioning and mental, physical, social, emotional or spiritual well-being"

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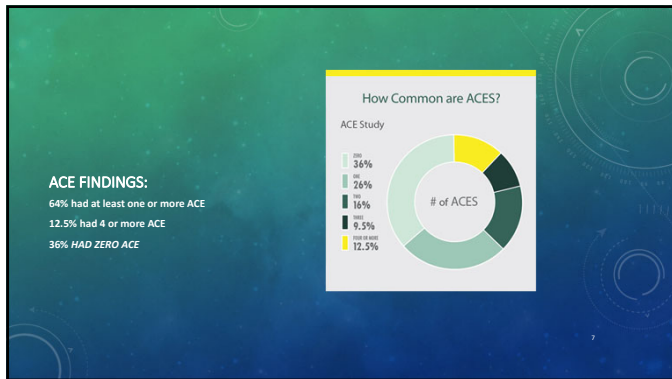
ACE STUDY OF ADVERSE CHILDHOOD EXPERIENCE

Retrospective Study by Kaiser

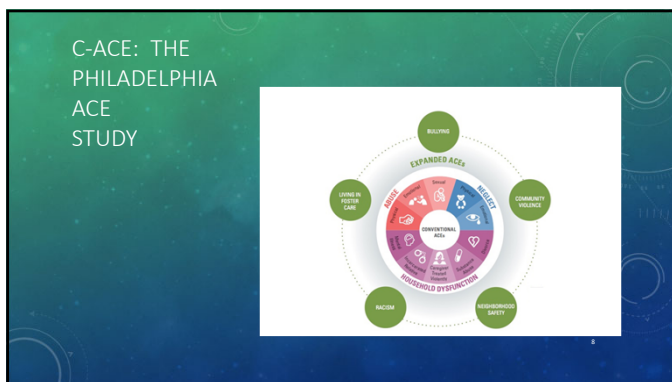
- N=17,337
- 78% white
- Avg age was 57
- employed
- privately insured
- 75 %college educated

- Abuse
 - Physical
 - Emotional;
 - Sexual
- Household dysfunction
 - incarcerated relative
 - SUD
 - Divorce
 - Mental Illness
 - Mother Treated Violently
- Neglect
 - Physical
 - Emotional

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Table 1. Demographic Characteristics of Participants in the Kaiser Study and BRFS ACE Survey, and Philadelphia Residents, 18 years and older, 2013

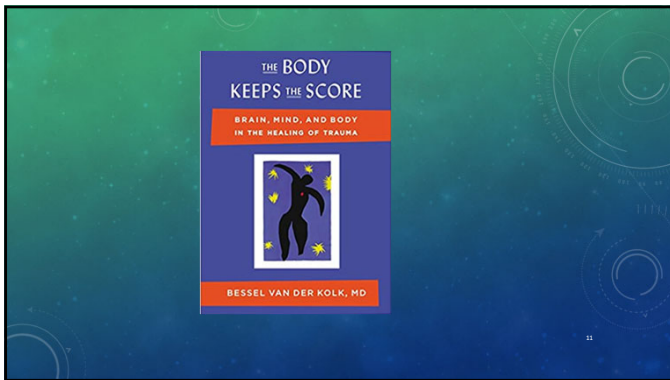
Kaiser Study	BRFS ACE Survey	Philadelphia Residents
Race	Race	Race
White 74.8% (n=12,968)	White, non-Hispanic 75% (N=19,770)	White 38.8% (N=466,677)
Black 4.6% (n=798)	Black, non-Hispanic 10% (N=2,662)	Black 36.1% (N=434,312)
Hispanic 11.2% (n=1,942)	Hispanic 8.5% (N=2,217)	Latino 11.4% (N=136,697)
Asian 7.2% (n=1,248)	Other, non-Hispanic 5% (N=1,381)	Asian 6.2% (N=74,916)
Other 1.9% (n=329)		Biracial 7.4% (N=88,939)
Education	Education	Education
Not HS graduate 7.2% (n=1,248)	<High school 10% (N=2,646)	<High school 20.0% (N=202,166)
HS graduate 17.6% (n=3,051)	High school 28% (N=7,379)	HS graduate 35.7% (N=359,983)
Some college 35.9% (n=6,224)	> High school 62% (N=16,175)	Some college 21.8% (N=220,191)
College graduate or higher 39.3% (n=6,813)		College graduate 22.5% (N=226,748)
All Participants 17,337	26,229	Total Residents 1,201,541

Data Source: Falutti, et al.¹ and Centers for Disease Control and Prevention² and Nielsen-Claritas 2013 Pop-Facts Database. Prepared by the Research and Evaluation Group at PHMC

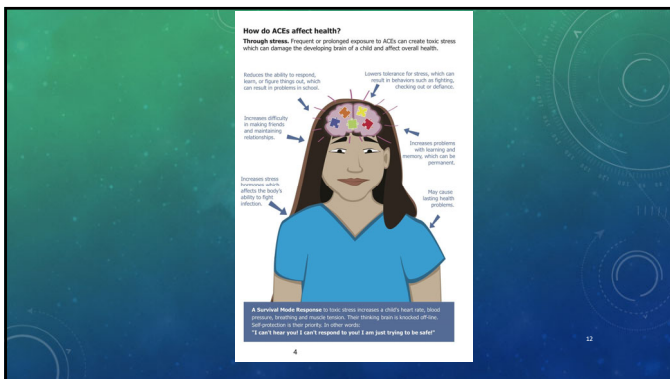
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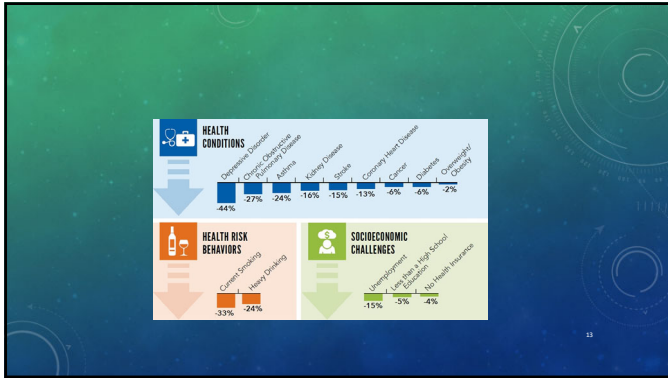
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THE HIGHER THE ACE:

- Increase no show for appts but make more appt
- High ace increased potential of loss revenue
- More medical comorbidities
- More medications
- Required more case management

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ADVERSE CHILDHOOD EXPERIENCES AND HEALTH CARE UTILIZATION IN A LOW-INCOME POPULATION

- N=38,200 adults (mean age 54), 66% were AA two-thirds recruited from community health centers (CHCs) across 12 Southeastern states.
- Results.—The percentages reporting and doctor's office visits, with high

↑ ACE = ↑ emergency room visits
 ↑ chronic disease index
 ↑ health care utilization in adulthood..


Figure 3. Relationship between adverse childhood experiences with emergency room visits (12 visits) in the past year by race/ethnicity groups.

Race/Ethnicity	Emergency room visits last year (12 visits)
White	~100
Black	~120
Hispanic	~110
Other	~105

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FINDINGS:

- Inequality is a disease.
- Unequal access to basic care
 - The wait list too long eye exam 1day vs 1year
 - The organs came from poor blacks 30% came from the uninsured they gave and never received
- Toxic stress of poverty and violence (ACE) and SDOH
- Decreases Life expectancy (14 yr difference)



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BEYOND ACE

Immigration Status

Housing Conditions

Gender discrimination

War and Social Conflict

Poverty

Opioid Crisis

Racism

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WHAT DO YOU THINK OF WHEN YOU HEAR THE WORD 'DOCTOR' ?"
A HIGH SCHOOL STUDENTS PERSPECTIVE...

"Hero. Medicine. Caretaker. *Death.*"

"I think about the family members I've lost to the medical system, a system that failed to treat them with dignity or respect."

"Yeah, and doctors don't think we feel pain the same as White people do, so they give us less medicine."

"I really want to be a doctor, but I'm terrified to be a patient."

<https://www.merit.org/doc/full/10.1056/NEJMp2105339>

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MICROAGGRESSIONS:

- Coined in 1970 by Chester M. Pierce, psychiatrist at Harvard University.
- Described as insults and dismissals which he regularly witnessed non-black Americans inflicting on African Americans
- Defined as brief and commonplace daily verbal, behavioral or environmental slights, whether intentional or unintentional, that communicate hostile derogatory, or negative attitudes toward stigmatized or culturally marginalized groups.



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WAS THIS REALLY RACISM?

RACISM AS A ROOT CAUSE APPROACH: A NEW FRAMEWORK

If the population you are engaging with is experiencing at least one of the following, racism is likely at the root of this population's health outcome disparities:

- Barriers to wealth accumulation
- Educational inequities
- Disproportionate burden of displacement and housing insecurity
- Disparate treatment in the justice system
- Disparities by skin tone and/or color

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RACE AS A SOCIAL DETERMINANT OF HEALTH:

- Landmark study in 2016:
- Racial bias in pain assessment and treatment recommendations, and false beliefs about biological differences between blacks and whites
- Results:
 - 40% 1st and 2nd year medical students believed that the skin of black people is thicker than white skin.

Students who believed that black people are not as sensitive to pain as white people were less likely to treat black people's pain appropriately.

Hoffman EM, Trautner S, Aze J, Oliver MN. Racial bias in pain assessment and treatment recommendations, and false beliefs about biological differences between blacks and whites. Proc Natl Acad Sci U S A. 2016;113(16):4296-4301. doi:10.1073/pnas.1510471113

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THE IMPACT OF RACISM ON CHILD AND ADOLESCENT HEALTH

Racism is a driver of health inequities.

Affects the wellbeing, expectations and aspirations of our children

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BLACK AMERICAN RACIAL IDENTITY (WILLIAM CROSS)



1. PRE-ENCOUNTER: largely unaware of race or racial implications
2. ENCOUNTER: forced by event or series of events to acknowledge the impact of racism in one's life and the reality that one cannot truly be white
3. IMMERSION/EMERSION: simultaneous desire to surround oneself with visible symbols of one's racial identity
4. INTERNALIZATION: secure in one's own sense of racial identity; pro-black
5. INTERNALIZATION-COMMITMENT: found ways to translate one's personal sense of blackness into a plan of action or a general sense of commitment to concerns of blacks as a group

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THE PROCESS:



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BEST PRACTICE FOR HEALTH EQUITY

SDG Economic stability
SDG Health
SDG Quality education
SDG Gender equality
SDG Reduced inequalities
SDG Sustainable communities

Individual
Biology, personality, history, childhood experiences
Adverse childhood experiences (ACEs) trajectory
Adverse housing and neighborhoods, adverse parenting and discipline

Relationship
Friends, family, peers, intergenerational trauma, epigenetics
Peer empowerment, mentoring, recovery

Community
Social and physical environments, adverse community experiences
Safe physical spaces, positive physical, social, cultural, economic, and environmental settings

Societal
Structures, systems, policies, social and cultural norms
Address underrepresentation of youth (e.g., youth advisory)

ACEs Pyramid

Historical Trauma, context of care and place
Adverse housing, adverse health care, social justice

<https://onlinelibrary.wiley.com/doi/10.1111/psp.12486>

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TARGETED UNIVERSALISM

Universal Goal with Targeted Solutions

Structural Inequity produces consistently different outcomes for different communities.

Opportunity Structures respond with necessary resources and multiple paths needed for different communities & individuals to thrive.

Structural Inequity vs. Opportunity Structure

<https://www.eric.ed.gov/fulltext/ED584944.pdf>

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THE ROLE OF MANAGED CARE IN INFLUENCING CHANGE:

MAKE THE ACHIEVEMENT OF EQUITY A STRATEGIC GOAL.

- Encourage Primary care and MH providers to be self aware of their own bias
- Advocated for policies that improve the lived experience of these kids
- Promote policies and cross-sector partnerships that improve health outcomes

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ACTION ITEMS :

- Changing social norms that accept or allow indifference to violence and adversity is important in the prevention of ACEs
- Promote Social Norms that Protect Against Violence and Adversity
- Promote community norms around a shared responsibility for the health and well-being of all children
- Support parents and positive parenting, including norms around safe and effective discipline
- Foster healthy and positive norms around gender, masculinity, and violence to protect against violence towards intimate partners, children, and peers
- Reduce stigma around help-seeking
- Enhance connectedness to build resiliency in the face of adversity

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WHAT HAPPENED TO YOU?
CONVERSATIONS ON TRAUMA, RESILIENCE, AND HEALING
BRUCE D. PERRY, MD, PhD
OPRAH WINFREY

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SIX KEY PRINCIPLES OF A TRAUMA-INFORMED APPROACH

Safety	Trustworthiness and Transparency	Peer Support
Collaboration and Mutuality	Empowerment, Voice and Choice	Cultural, Historical, and Gender Issues

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RESILIENCE: STACK THE SCALE

- Facilitating supportive adult-child relationships;
- Building a sense of self-efficacy and perceived control;
- providing opportunities to strengthen adaptive skills and self-regulatory capacities; and
- mobilizing sources of faith, hope, and cultural traditions.
- Learning to cope with manageable threats is critical for the development of resilience.

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RESOURCES FROM THE ACADEMY OF PEDIATRICS:

<https://www.aap.org/en-us/about-us-and-policy/aap-health-initiatives/resilience/Pages/Training-Toolkit.aspx>

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THE BODY KEEPS SCORE: HEALING TECHNIQUES:

- Exercise
- Mindfulness
- Biofeedback
- EMDR
- Yoga
- Parent Child Interaction Therapy (PCIT)
- Play therapy
- Family Therapy

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IN SUMMARY :

ACE and Extended ACE are common and is a major economic burden in this country that negatively affect health outcomes.

In particular, Racism is a toxic stress that has far reaching mental and health effects for the victim, bystander and perpetrator.

Targeted Universalism provides a solution to structural inequities.


Best Practice includes efforts at the Individual, Familial, Community and Society levels

Addressing toxic stress requires trauma informed care approach and being aware that clinic and hospital settings may trigger re-traumatization in vulnerable youth.

Building resilience require stacking the scale with more positive outcomes


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RESOURCES FOR PEDIATRICIANS AND MENTAL HEALTH PROVIDERS TO SCREEN FOR ACE:



Screening tools:
<https://www.acesaware.org/screen/screening-tools/>

Work flow algorithms
<https://www.acesaware.org/wp-content/uploads/2019/12/ACE-Clinical-Workflows-Algorithms-and-ACE-Associated-Health-Conditions.pdf>



<https://vetoviolence.cdc.gov/apps/aces-training/#/mhp/3-1-3#top>

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