Adverse Childhood Experiences (ACEs)

Shola Tijani, MD

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ABUSE

NEGLECT

HOUSEHOLD DYSFUNCTION



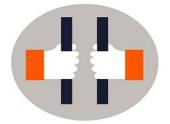
Physical



Physical



Mental Illness



Incarcerated Relative



Emotional



Emotional



Mother treated violently



Substance Abuse



Sexual



Divorce

Early Childhood Adversity - Impact on Brain, Body

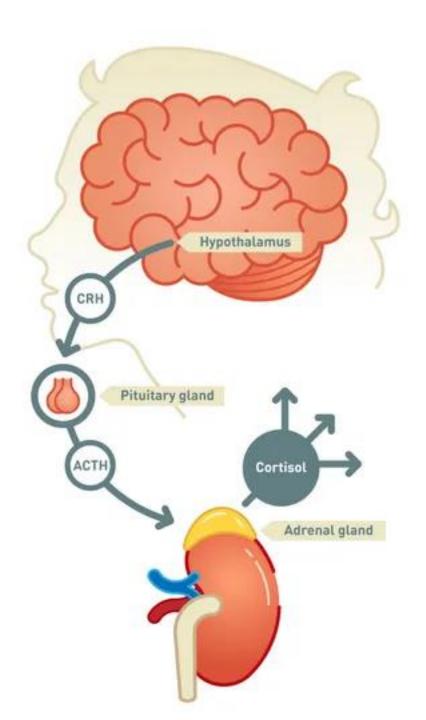
and Behavior

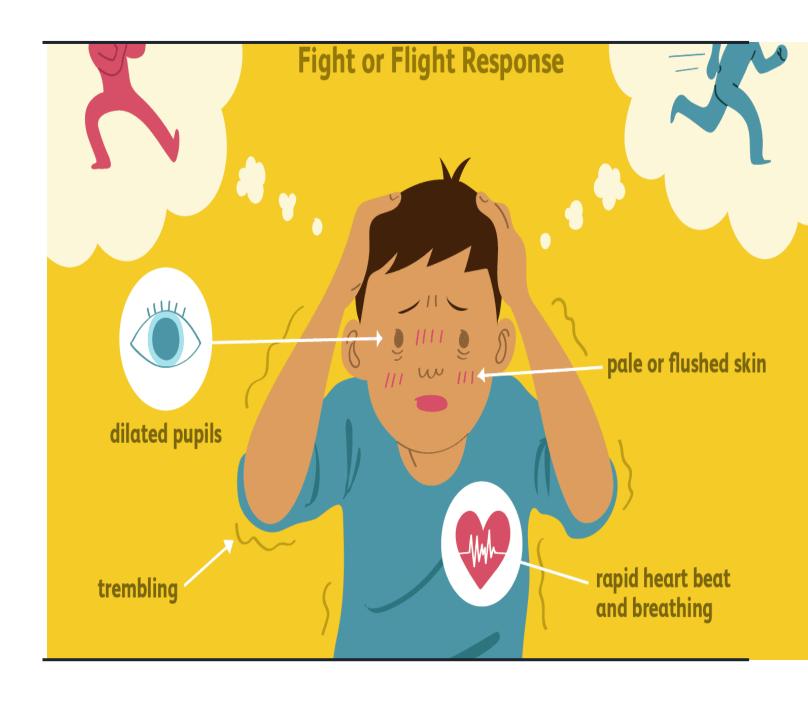


- 2. Chronic stress can be toxic to developing brains.
- 3. Significant early adversity can lead to lifelong problems.
- 4. Early intervention can prevent the consequences of early adversity.
- 5. Stable, caring relationships are essential for healthy development.

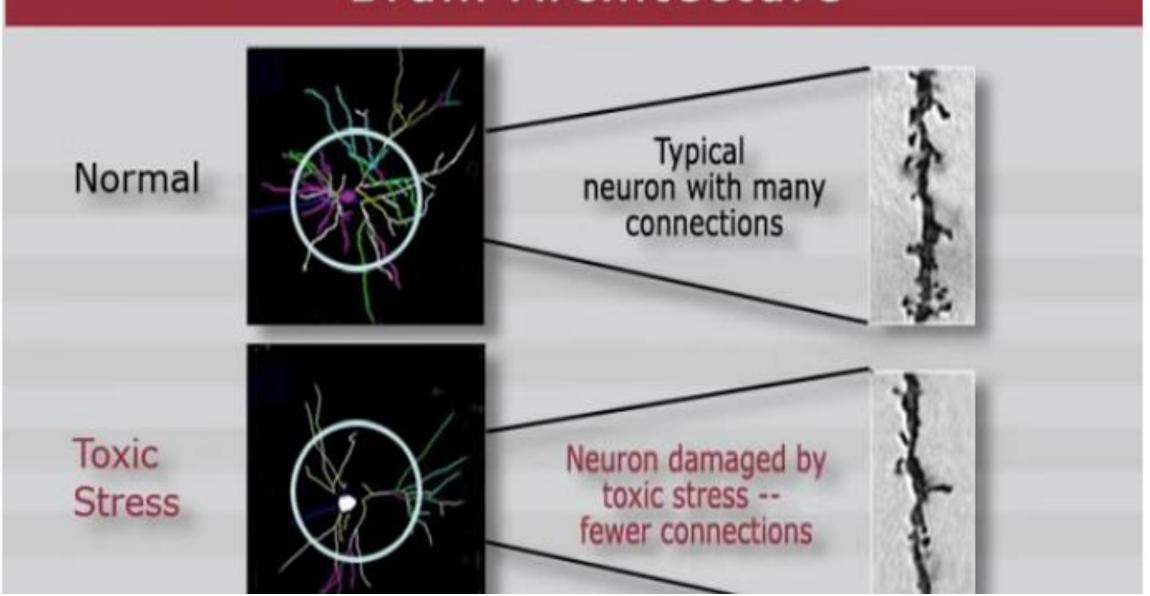
❖ Critical Period – Some experiences are more impactful early in life than later in life, and therefore it argues for investing in what happens in the first 3-5 years.

of a child's brain is formed between birth and age 3



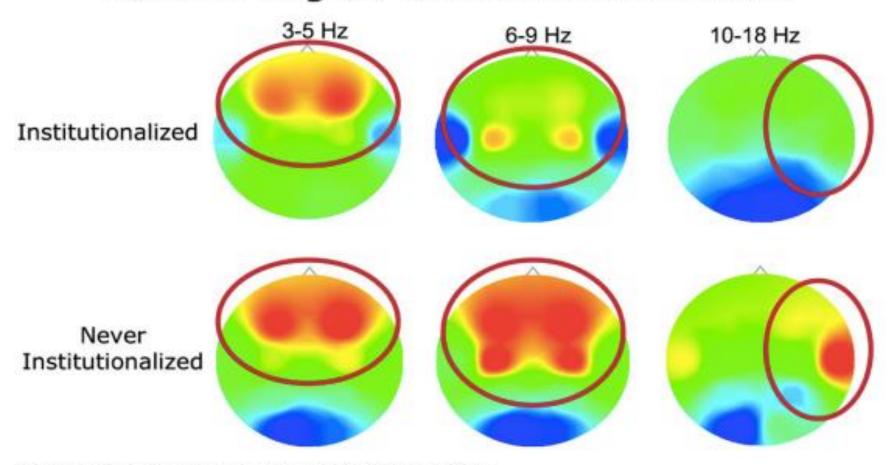


Toxic Stress Changes Brain Architecture



NATIONAL SCIENTIFIC COUNCIL ON THE DEVELOPING CHILD

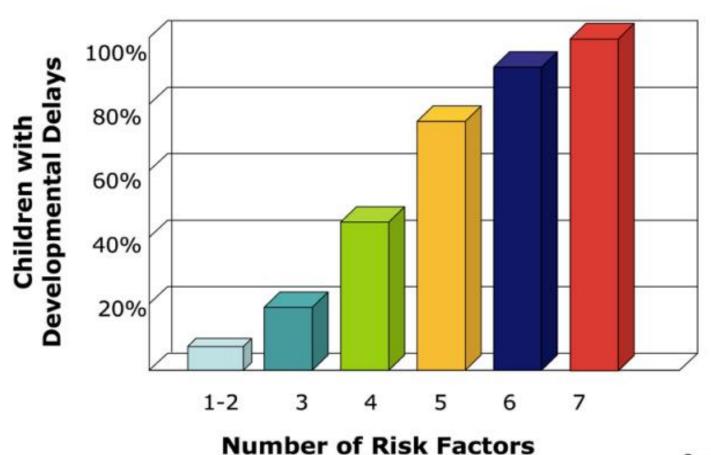
Extreme Neglect Diminishes Brain Power



Source: C. A. Nelson (2008); Marshall, Fox, & the BEIP Core Group (2004).



Significant Adversity Impairs Development in the First Three Years



Source: Barth et al. (2008)

Death

Early Death

Disease, Disability, and Social Problems

Adoption of Health-risk Behaviors

Social, Emotional, and Cognitive Impairment

Disrupted Neurodevelopment

Adverse Childhood Experiences

The Adverse Childhood Experiences Study

The largest study of its kind ever done to examine the health and social effects of adverse childhood experiences over the lifespan (Felitti & Anda).

❖ Felitti VJ, Anda RF, Nordenberg D, Williamson DF, Spitz AM, Edwards V, Koss MP, Marks JS. Relationship of Child Abuse and Household Dysfunction to Many of the Leading Causes of Death in Adults: The Adverse Childhood Experiences (ACE) Study. Am J Prev Med. 1998; 14(4).

Categories of Adverse Childhood Experiences

Abuse, by Category	Category
	Prevalence (%)
 Psychological (by parents) 	11%
 Physical (by parents) 	11%
 Sexual (anyone) 	22%
Household Dysfunction, by Category	
 Substance Abuse in family 	26%
 Mental Illness in family 	19%
 Domestic Violence 	13%
 Imprisoned Household Membe 	r 3%
 Loss of parent 	23%

Adverse Childhood Experiences Score

Number of categories of childhood experiences are summed

ACE Score

Prevalence (after Wave 2)

0 33%

1 25%

2 15%

3 10%

4 6%

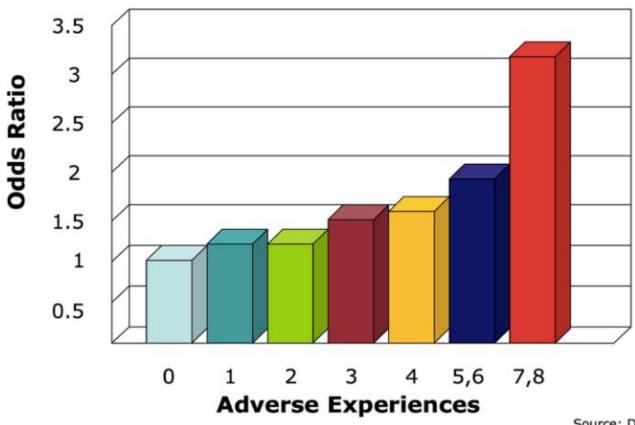
5 or more 11%



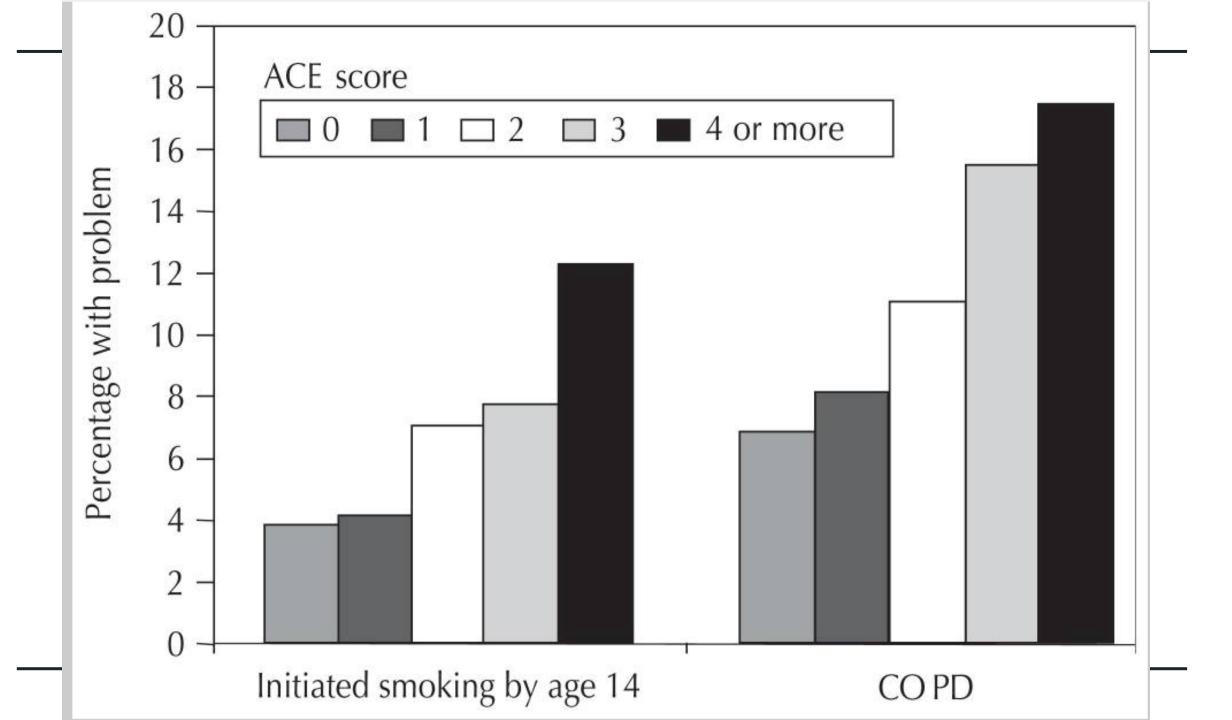
- Approximately two-thirds have at least one ACE
- More than one-third have experienced
 - 2 4 ACE categories



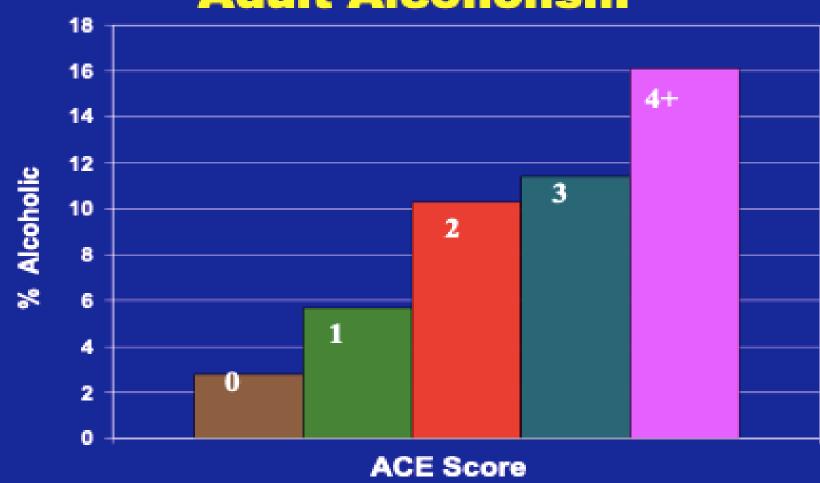
Risk Factors for Adult Heart Disease are Embedded in Adverse Childhood Experiences



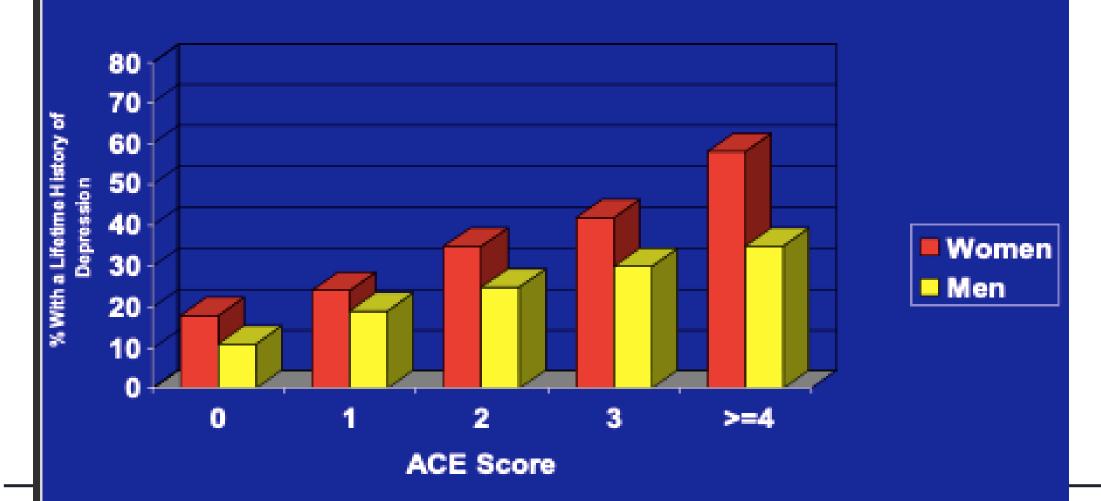
Source: Dong et al, 2004



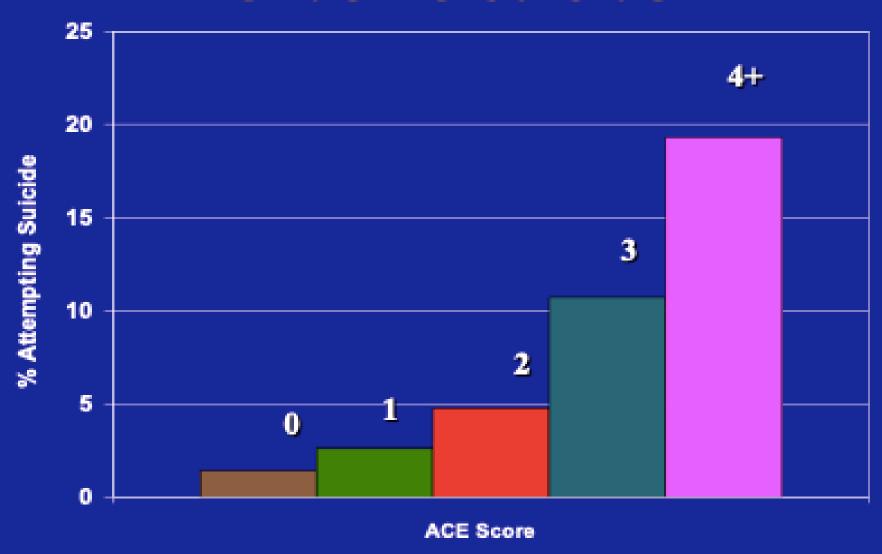




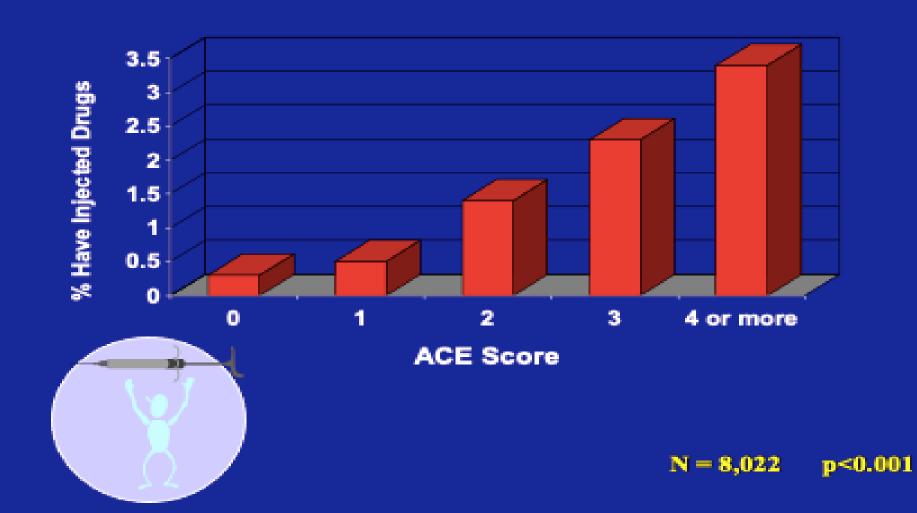
Childhood Experiences Underlie Chronic Depression



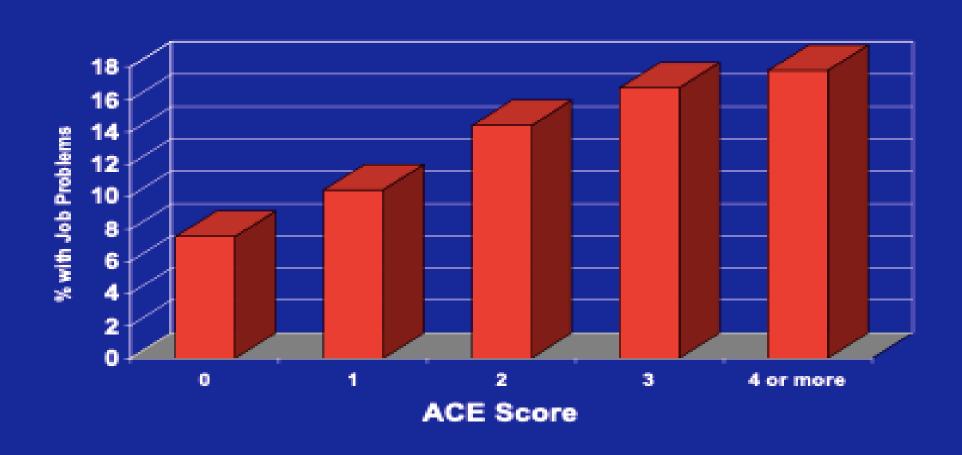
Childhood Experiences Underlie Suicide



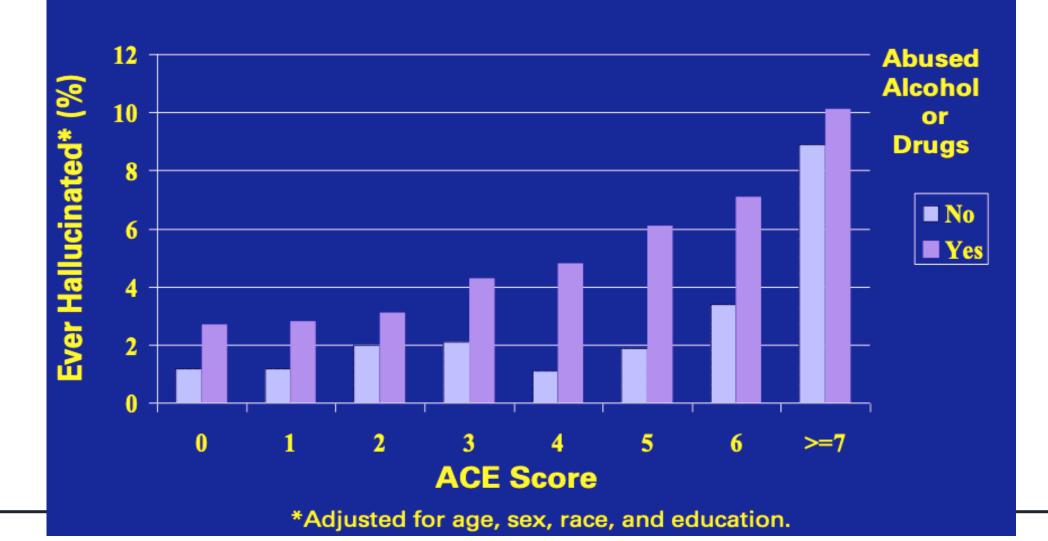
ACE Score and Intravenous Drug Use



ACE Score and Serious Job Problems



ACE Score and Hallucinations



ACE Response: Individually

❖ Safe, Stable, Nurturing Relationship

1. Safe: Free from harm

2. Stable: Degree of consistency

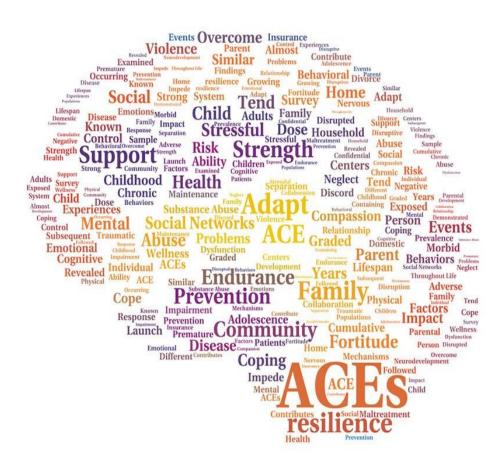
3. Nurturing: Compassionate, responsive caregiver(s)





ACE Response - Community

- 1. Provide information: Raise awareness
- 2. Enhance Knowledge & Skills
- 3. Be a caring adult. Be intentional
- 4. Contribute to community Program
- 5. Enhance Access. Reduce Barriers
- 6. Support Family-Friendly Public Policies
- 7. Change Consequences (Incentives & Disincentives)



Factors that counteracts the overactive stress

response:

- 1. Sleep
- 2. Regular exercise
- 3. Nutrition
- 4. Mindfulness
- 5. Mental health

6. Healthy relationship



***IT IS POSSIBLE TO HEAL

There is no keener revelation of a society's soul than the way in which it treats its children. ~Nelson Mandela

Information & Resources

- ACE Study findings and information
 - www.acestudy.org or www.cdc.gov
- National Scientific Council on the Developing Child at Harvard University
 - www.developingchild.net
- Academy of Pediatrics
 - www.brightfutures.aap.org



