

The California Professional Society on the Abuse of Children Strengthening Practice Through Knowledge



Strengthening Practice Through Knowledge

#### CALIFORNIA ACES ACADEMY Educate, Inspire, Connect Live Webinar avahealth.org



September 3, 2020



ADVANCING HEALTH EDUCATION & RESEARCH



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# The Repressed Role of Adverse Childhood Experiences in Adult Well-Being, Disease and Social Functioning: Turning Gold into Lead Dr Vincent J. Felitti

September 3, 2020





ADVANCING HEALTH EDUCATION & RESEARCH

The Repressed Role of Adverse Childhood Experiences in Adult Well-being, Disease, and Social Function: Turning gold into lead



A collaborative effort between

Kaiser Permanente and

**US Centers for Disease Control and Prevention** 



Vincent J. Felitti, MD CALIFORNIA ACES ACADEMY Webinar September 3, 2020

ACE Study Co-Investigators: Robert F. Anda, M.D. Vincent J. Felitti, M.D.

#### The ACE Study Summary of Findings:

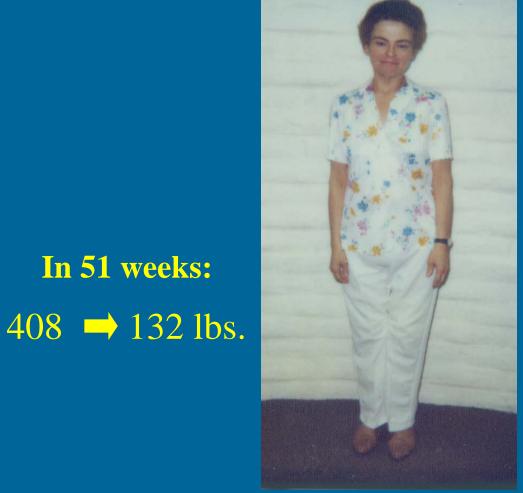
• Adverse Childhood Experiences (ACEs) are *very* common, and disturbing, and hence are mostly unrecognized.



- They are powerful predictors of adult social malfunction, emotional distress, health risks, disease, and premature death.
- This combination makes ACEs *the leading* determinant of the health, social well-being, and economy of the nation.

#### What is the *Core* Diagnosis Here?

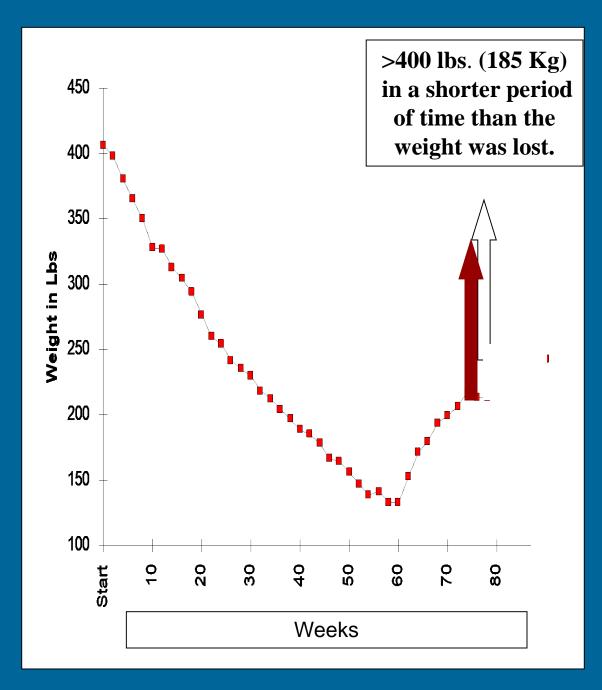




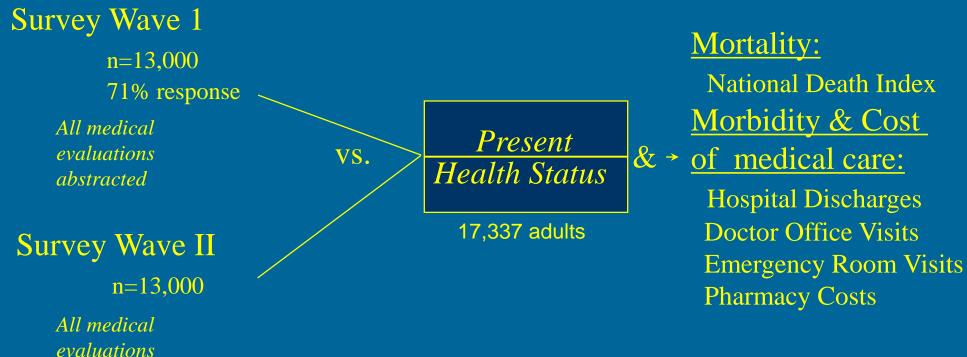
Age 29

Which photo represents the *patient's* problem?

In 51 weeks:



# **ACE Study Design**



abstracted

## Categories of Adverse Childhood Experiences

Abuse, by Category Psychological (by parents) Physical (by parents) Sexual (anyone)	<b>Prevalence</b> 11% 28% 22%
Neglect, by Category	
Emotional	15%
Physical	10%
Household Dysfunction, by Category	
Alcoholism or drug use in home	27%
Loss of biological parent <18	23%
Depression or mental illness in home	17%
Mother treated violently	13%
Imprisoned household member	5%

## **Adverse Childhood Experiences Score**

#### Number of categories (not events) is summed...

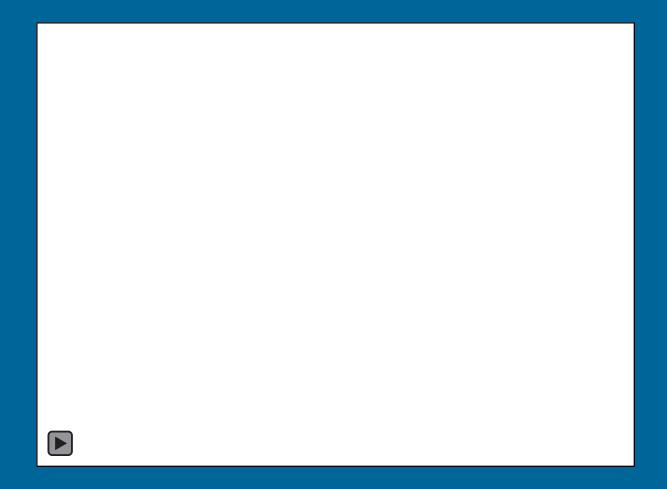
ACE Score	Prevalence
0	33%
1	25%
2	15%
3	10%
4	6%
5 or more	11%*



- 67% experienced at least one *category* of ACE.
- If any one ACE is present, there is an 87% chance at least one other category of ACE is present, and 50% chance of 3 or >.
- \* Women are 50% more likely than men to have a Score >5.

**Risk Behaviors: 'Addictions'** 

## **Smoking to Self-Medicate**



Emotional *benefits* of addiction

Addiction is the unconscious, compulsive use of psychoactive materials or agents.

> "It's hard to get enough of something that almost works."

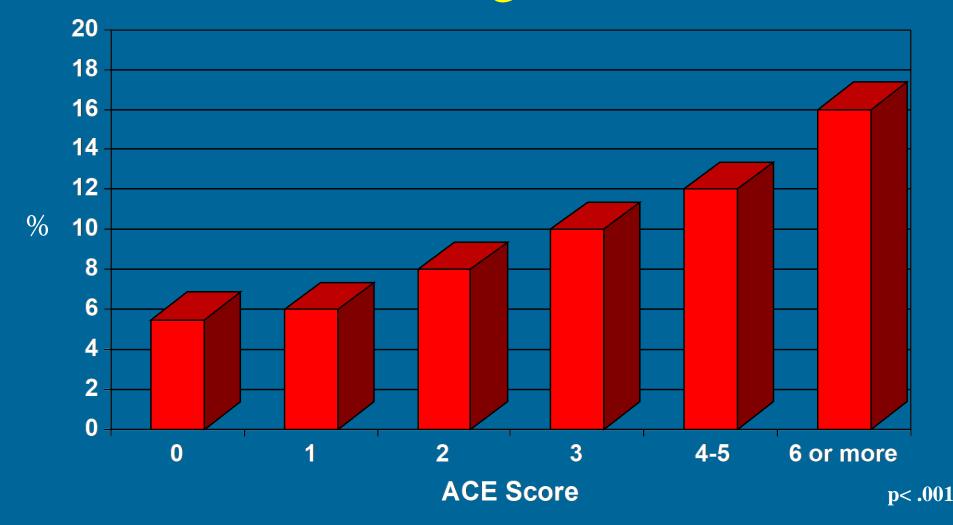
The <u>traditional</u> concept:

"Addiction is due to the characteristics intrinsic in the molecular structure of some substance." In the ACE Study, we found that:

"Addiction highly correlates with characteristics intrinsic to that individual's childhood experiences."

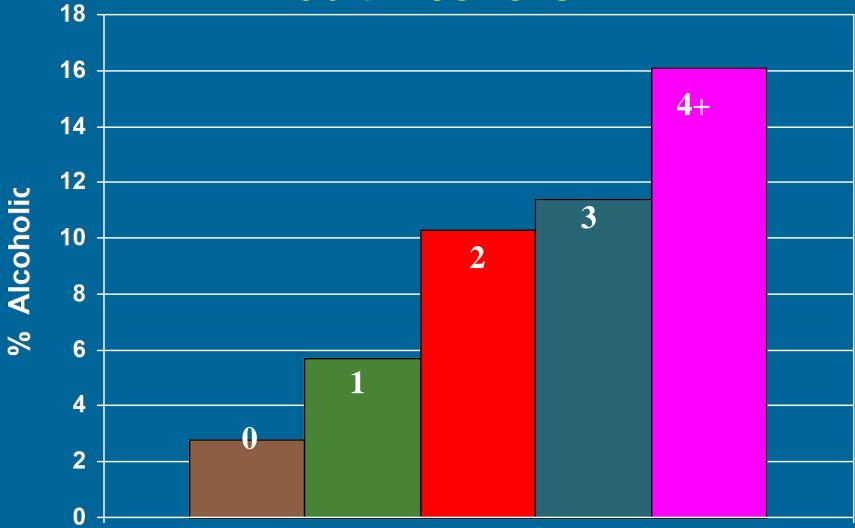
#### **Health Risks**

# Adverse Childhood Experiences vs. Smoking as an Adult



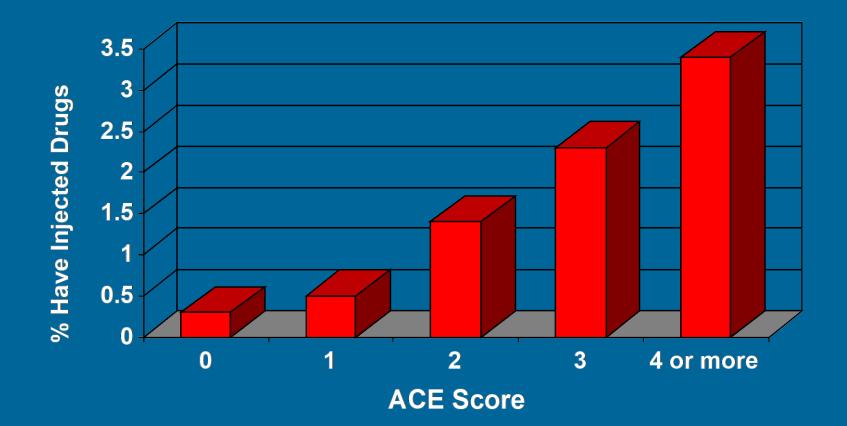
#### **Health Risks**

## Childhood Experiences vs. Adult Alcoholism



**Health risks** 

## ACE Score vs Intravenous Drug Use



p<0.001

# JAMA ad from the 1940s, for the Profession



Lilly

SINCE 1876

When patients with depression, narcolepsy, alcoholism, or obesity are selected as suitable cases for stimulant therapy, 'Amphedroxyn Hydrochloride' is a prudent choice of drug.

Detailed information and literature on 'Amphedroxyn Hydrochloride' are personally supplied by your Lilly medical service representative or may be obtained by writing to Eli Lilly and Company, Indianapolis 6, Indiana, U.S.A.

#### Functional aspects of 'dysfunctional' behavior

Lost 158 pounds in Program. But, why did he *gain* it?

## The Hidden Threat of Weight Loss



#### **A Former Pediatric Patient Speaks Clearly**





Most people say depression is a disease. Many say depression is genetic. Some say it is due to a chemical imbalance.

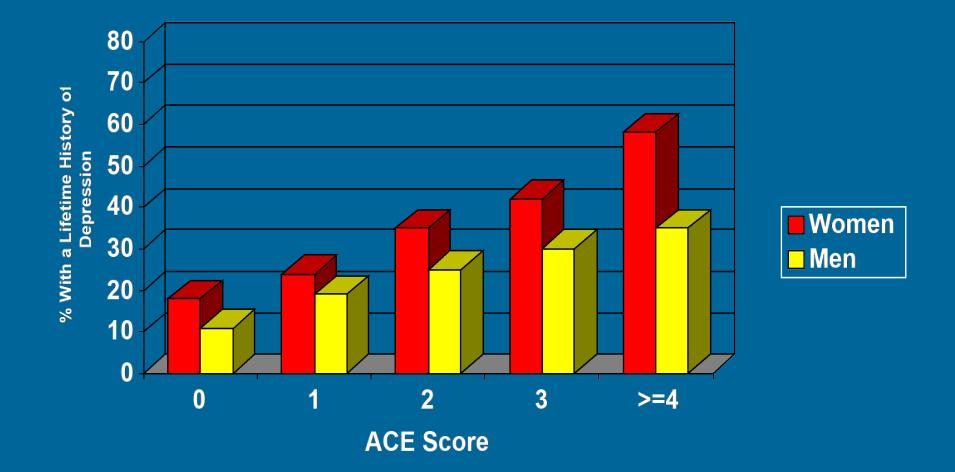


What if depression were *not* a disease, but a *normal response* to abnormal life experiences?



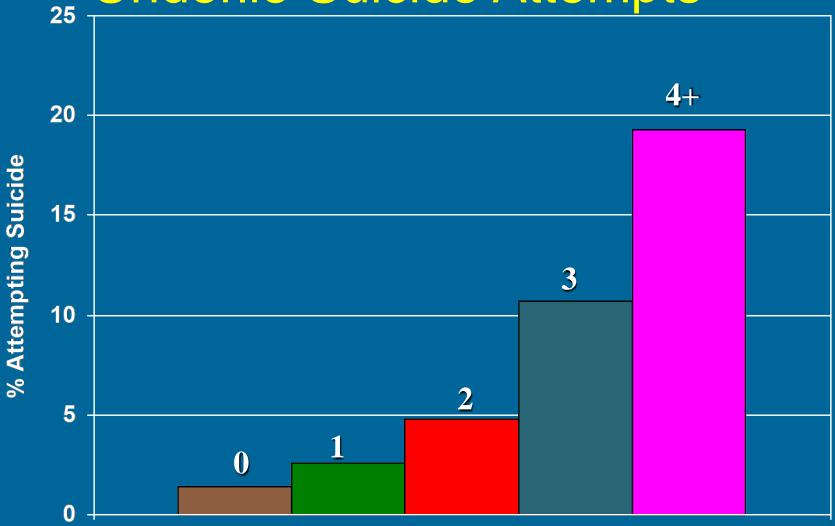
#### **Well-being**

# Childhood Experiences Underlie Chronic Depression

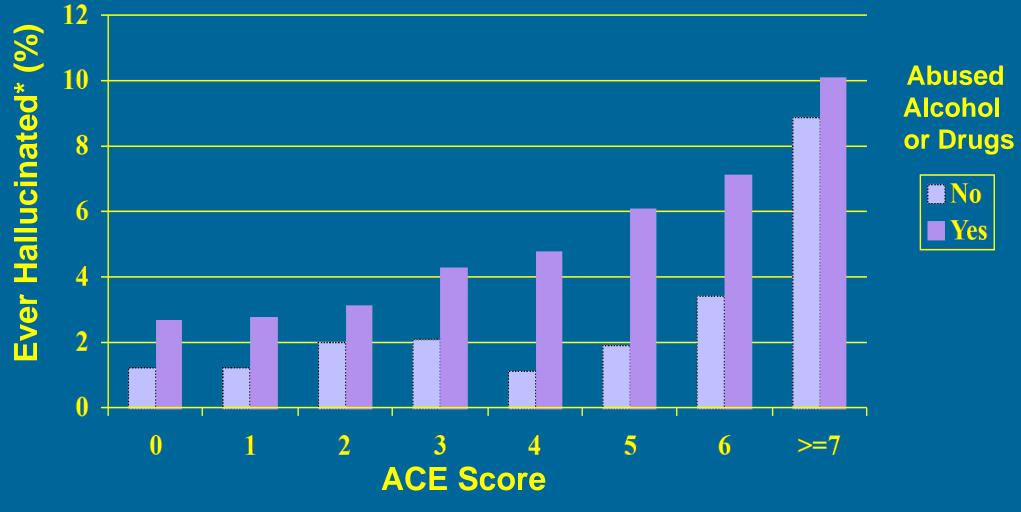




# Childhood Experiences Underlie Suicide Attempts



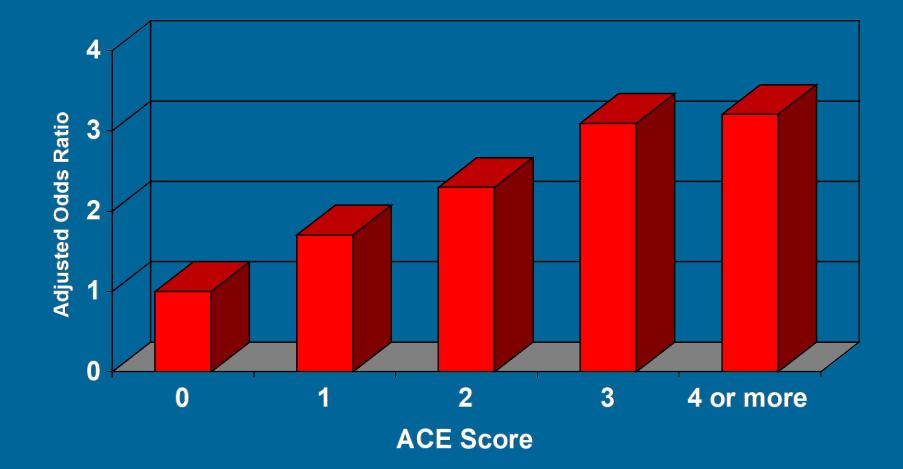
#### Disease ACE Score and Acknowledged Hallucinations



\*Adjusted for age, sex, race, and education.

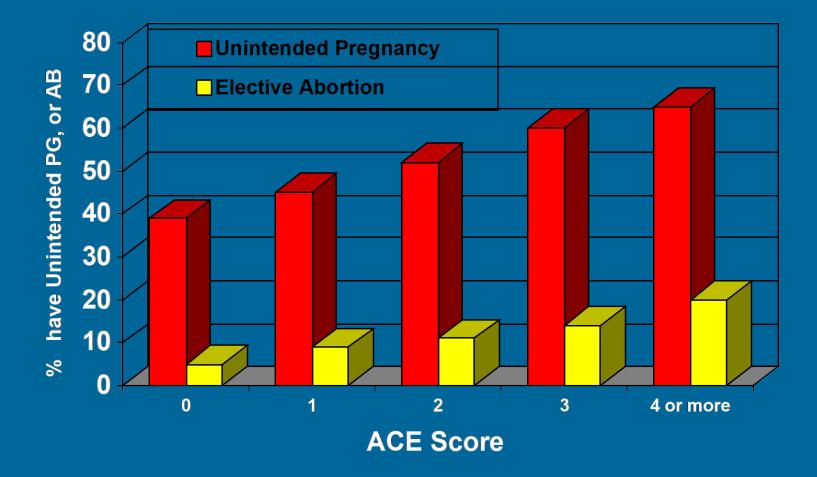
#### **Health risks**

## Adverse Childhood Experiences vs. Likelihood of > 50 Sexual Partners



#### **Health risks**

## ACE Score vs. Unintended Pregnancy or Elective Abortion



### **ACEs Increase Likelihood of Heart Disease\***

1.7x

**1.5**x

**1.4x** 

**1.4x** 

**1.4**x

1.3x

**1.7**x

**1.3**x

**1.4**x

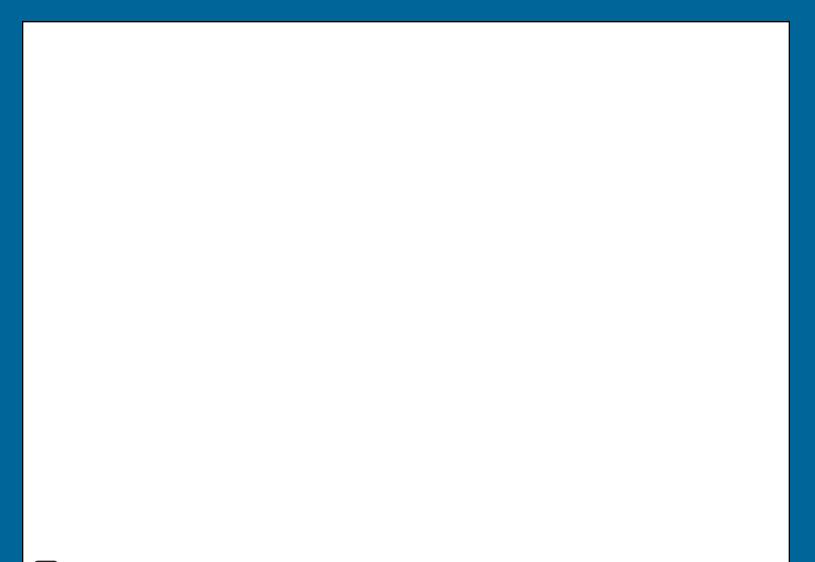
- Emotional abuse
- Physical abuse
- Sexual abuse
- Domestic violence
- Mental illness
- Substance abuse
- Household criminal
- Emotional neglect
- Physical neglect



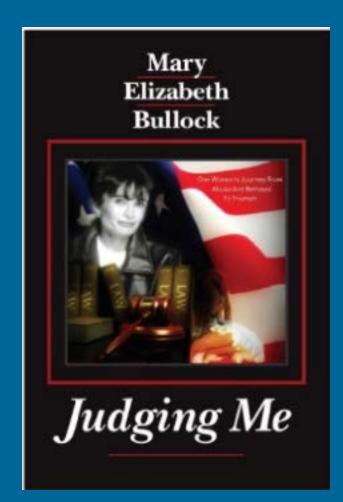
After correction for age, race, education, and conventional Framingham risk factors like smoking and diabetes.

Circulation, Sept. 2004

## **Other Biomedical Disease**



## **Resilience?**



Adverse Childhood Experiences determine the likelihood of the ten most common causes of death in the United States.

Top 10 Risk Factors: smoking, severe obesity, physical inactivity, depression, suicide attempt, alcoholism, illicit drug use, injected drug use, 50+ sexual partners, h/o STD.

## **Pathways from ACEs to Disease**

1) By long-term effects of Coping Mechanisms.

2) By toxic CNS Hyperstimulation.

3) By Epigenetic effects.

With an ACE Score of 4 or more, the majority of adults have multiple risk factors for these diseases or the diseases themselves. Many chronic diseases of adults are determined decades earlier, in childhood.

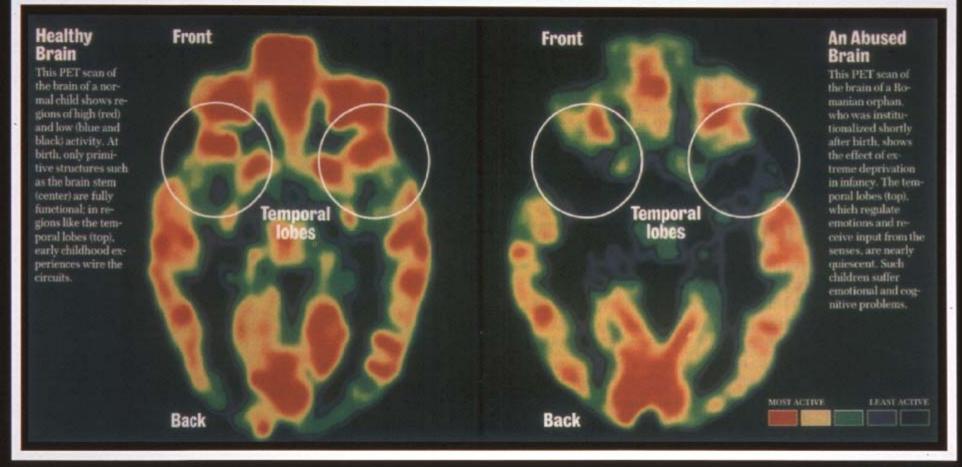
Not by childhood disease, but by life experiences.

# **A Public Health Paradox**

Many of our most common and intractable public health problems are the result of unconsciously attempted <u>solutions</u> to personal problems dating back to childhood, buried in time, and concealed by shame, by secrecy, and by social taboo. The risk factors underlying these adult diseases often are effective short-term *coping* devices.

### **Evidence from the ACE Study Indicates:**

Adverse childhood experiences are our *main* cause of health risk behaviors, disease, disability, premature death, and healthcare costs.





### Improving the Future

Child health and well-being as it stands today.

Understanding these problems commonly exist.

Seeking ACE histories in medical practice. Adult health and well-being as it could be.

### **Interventions**

# Translating Research into Practice

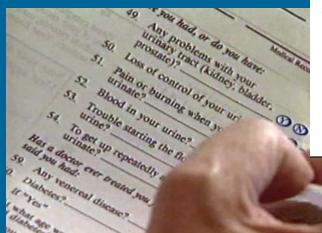
### a beginning

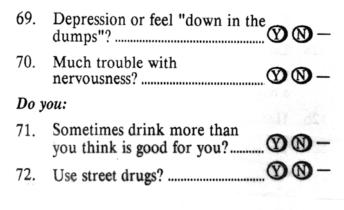


1.2 million <u>comprehensive</u> patient evaluations since 1975

An Individual, Population-based Health Appraisal System: A Biopsychosocial Concept

• Comprehensive history (*not* symptom-initiated) obtained at home by detailed questionnaire, better by Internet.





#### Have you ever:

- 73a. As a child, been physically abused?

### **Includes ACE Questions**

## Medical Questions of Documented Value

- Have you lived in a war zone?
- Have you ever been a combat soldier?
- Who in your family has committed suicide?
- Who in your family has been murdered?
- Who in your family has had a nervous breakdown?
- Were you ever molested as a child?
- Have you ever been held prisoner?
- Have you been tortured?
- Have you ever been raped?

## Extract from an actual case

#### **GENERAL HEALTH**

- Her health limits activity to some degree.
- Limitations are mostly due to shortness of breath or difficulty breathing.
- Limitations are mostly due to fatigue, tiredness, or lack of energy.
- Her stress level: large
- Doctor visits during the past 12 months: 1 4 times
- Hospitalizations over the past 12 months: 0 times
- Patient regularly uses seat belts.
- Patient believes she is more tired and has less energy compared to ot
- She often has trouble falling asleep or staying asleep.
- She often awakens tired after adequate sleep.
- She is more sensitive than other people.
- She is often worried about being ill.
- She often feels hopeless or down in the dumps.
- She has difficulty saying no, or sticking up for herself.
- She has problems controlling her anger.
- She has difficulty caring for herself.
- Patient is having serious problems with her family.
- Patient is having serious problems with her job.
- Patient is having serious problems with her finances.
- Patient has used street drugs.
- Patient would like an HIV (AIDS) test.

#### WOMEN'S HEALTH

- Patient does a breast exam: at least once a month
- Patient's last mammogram was: never.
- Patient is still having menstrual periods.
- Patient currently has irregular periods.
- Patient currently has a lot of pain with her periods.
- She has not been sexually active within the past year.
- She is no longer sexually active.
- Type of birth control used: tubal ligation
- Number of pregnancies: four or more
- Number of live births: three
- Patient has been physically abused as a child.
- Patient has been verbally abused as a child.
- Patient has been sexually molested as a child or adolescent.
- Patient has been threatened or abused as an adult by a sexual partner
- Her partner has threatened, pushed, or shoved her.
- Her partner has threatened or abused her children.

#### DIGESTIVE

- Patient has had a distinct weight gain during the last year.
- Patient has had indigestion or heartburn during the past year.
- Patient has had recurrent nausea or vomiting during the past year.
- She has recurrent abdominal pain.
- Patient has been diagnosed with esophagitis or esophageal reflux.
- Patient is likely to have some form of alcohol: never.

## Economics of a Biopsychosocial Preventive Approach

**Biomedical evaluation:** 

11% reduction in DOVs in subsequent year (700 patient sample)

Biopsychosocial evaluation: 35% reduction in DOVs & 11% reduction in ER visits. (135,000 adult patient sample) Early Death Disease, Disability, and Social Problems

Adoption of Health-risk Behaviors

Social, Emotional, and Cognitive Impairment

**Disrupted Neurodevelopment** 

Adverse Childhood Experiences

Conception

Mechanisms by Which Adverse Childhood Experiences Influence Health and Well-being Throughout the Lifespan

## Final Insights from the ACE Study

- Adverse childhood experiences are *common* but overwhelmingly unrecognized.
- Their link to major problems later in life is strong, proportionate, and logical.
- They are the nation' s *most basic* public health problem.
- It is comforting to mistake intermediary mechanism for basic cause.
- What presents as the 'Problem' may be someone's attempted solution.
- Unwittingly treating their 'solution' may be threatening and hence fail.
- Primary Prevention is presently the only feasible *population* approach.
- Change has been resisted, by us, in spite of enormous benefits.

### Practice Implications of the ACE Study

- A biopsychosocial and childhood trauma-oriented approach to medical evaluation has been demonstrated to be feasible, affordable, and acceptable to patients.
- It is possible to move from our current symptom-reactive mode of practice, to start dealing with basic causes, and thereby significantly improve medical care while reducing its cost.
- A childhood trauma-inclusive comprehensive medical history is proposed as the routine <u>entry</u> mechanism into all ongoing care, be it medical, psychological, or institutional.

## **Further Information**

### www.ACEsAware.org

www.ACEsConnection.com

www.AVAHealth.org (Major current DVD on ACE Study)
info@CavalcadeProductions.com (Documentary ACE DVDs)
www.HumaneExposures.com (3 Insightful Books)
Google, Medline/PubMed, YouTube ("ACE Study" as search words)
ACE Study Pubications since 1998 – 89 posted on AVA website:
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