Adverse Childhood Experiences and their Relation to Depression and Suicidality:

Turning gold into lead



A collaborative effort between

Kaiser Permanente and the Centers for Disease Control



Depression in Adults Conference Calgary October 15, 2008 Vincent J. Felitti, M.D. Robert F. Anda, M.D.

Is Morbid Obesity the core Diagnosis?



In 51 weeks 408 ⇒ 132 lbs



Origins of the ACE Study

ACE Study Design

Survey Wave 1 71% response (9,508/13,454) n=13,000

All medical evaluations abstracted

Survey Wave II n=13,000

All medical evaluations abstracted > Present Health Status

N = 17,337

Mortality National Death Index

Morbidity
Hospitalization
Doctor Office Visits
Emergency Room Visits
Pharmacy Utilization

Prevalence of Adverse Childhood Experiences

	Prevalence (%)
buse, by Category	
Psychological (by parents)	11%
Physical (by parents)	28%
Sexual (anyone)	22%
leglect, by Category	
Emotional	15%
Physical	10%
lousehold Dysfunction, by Ca	tegory
Alcoholism or drug use in home	27%
Loss of biological parent < age 18	23%
Depression or mental illness in home	17%
Mother treated violently	13%
Imprisoned household member	6%

Adverse Childhood Experiences Score

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

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



- · Two out of three experienced at least one category of ACE.
- Women are 50% more likely than men to have ACE Score >5.
- If any one ACE is present, there is an 87% chance at least one other ACE category is present, and a 50% chance of 3 others.

The ACE Study Summary of Findings:



- Adverse Childhood Experiences (ACEs) are very common, but largely unrecognized.
- ACEs are in fact the basis for much of adult medicine and of many common public health problems like depression.
- ACEs are strong predictors of later well-being, social functioning health risks, disease, and death.
- Adverse childhood experiences are interrelated, not solitary.
- This combination makes ACEs the leading determinant of the health and well-being of the nation.

Molestation in Childhood



Familial obesity does not mean genetic

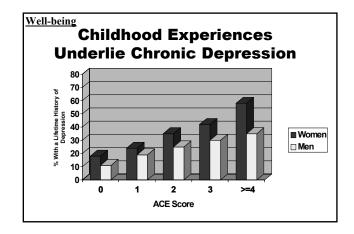
Depression:

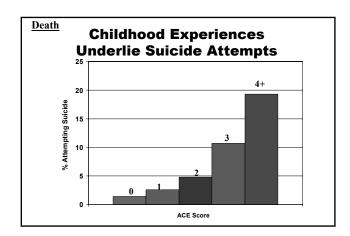
Most say depression is a disease. Many say depression is genetic. Some say it is due to a chemical imbalance.

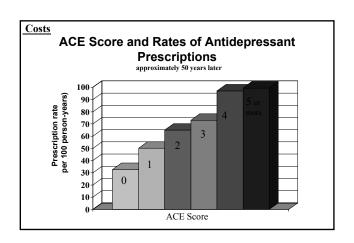


What if depression were *not* a disease, but a *normal response* to abnormal life experiences?









Estimates of the Population Attributable Risk* of ACEs for Selected Outcomes in Women

Mental Health	PAR
Current depression	54%

^{*}That portion of a condition attributable to specific risk factors



Interventions

What Can We Do Today?

- Routinely seek a trauma-history of adverse childhood experiences from <u>all</u> patients, by questionnaire.
- Acknowledge their reality by asking, "How has this affected you later in your life?"
- Develop systems for early prevention.

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

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

	dumps :	
70.	Much trouble with nervousness?	_00-
Do	your	
71.	Sometimes drink more than you think is good for you?	_00-
72.	Use street drugs?	
Has	re you ever:	
- 73.	Been raped, or sexually molested as a child?	_00-
73a	As a child, been physically abused?	
738	. As a child, been verbally abused?	_00-

Includes ACE Questions

69. Depression or feel "down in the

Interventions

Unconventional R.O.S. Questions of Demonstrated Value

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

Results of Interventions

Benefits of a Biopsychosocial Preventive Approach

Biopsychosocial evaluation: 35% reduction in DOVs

subsequent year.

(120,000 patient sample)

Biomedical evaluation: 11% reduction in DOVs,

(control) subsequent year.

(700 patient sample)

Final Insights from the ACE Study Adverse childhood experiences are common but typically unrecognized. Their link to depression and suicide is powerful, 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 in fact be an attempted solution. Treating the solution may be threatening and cause flight from treatment. Primary prevention is presently the only feasible population approach. The resistance to introducing these changes is major.