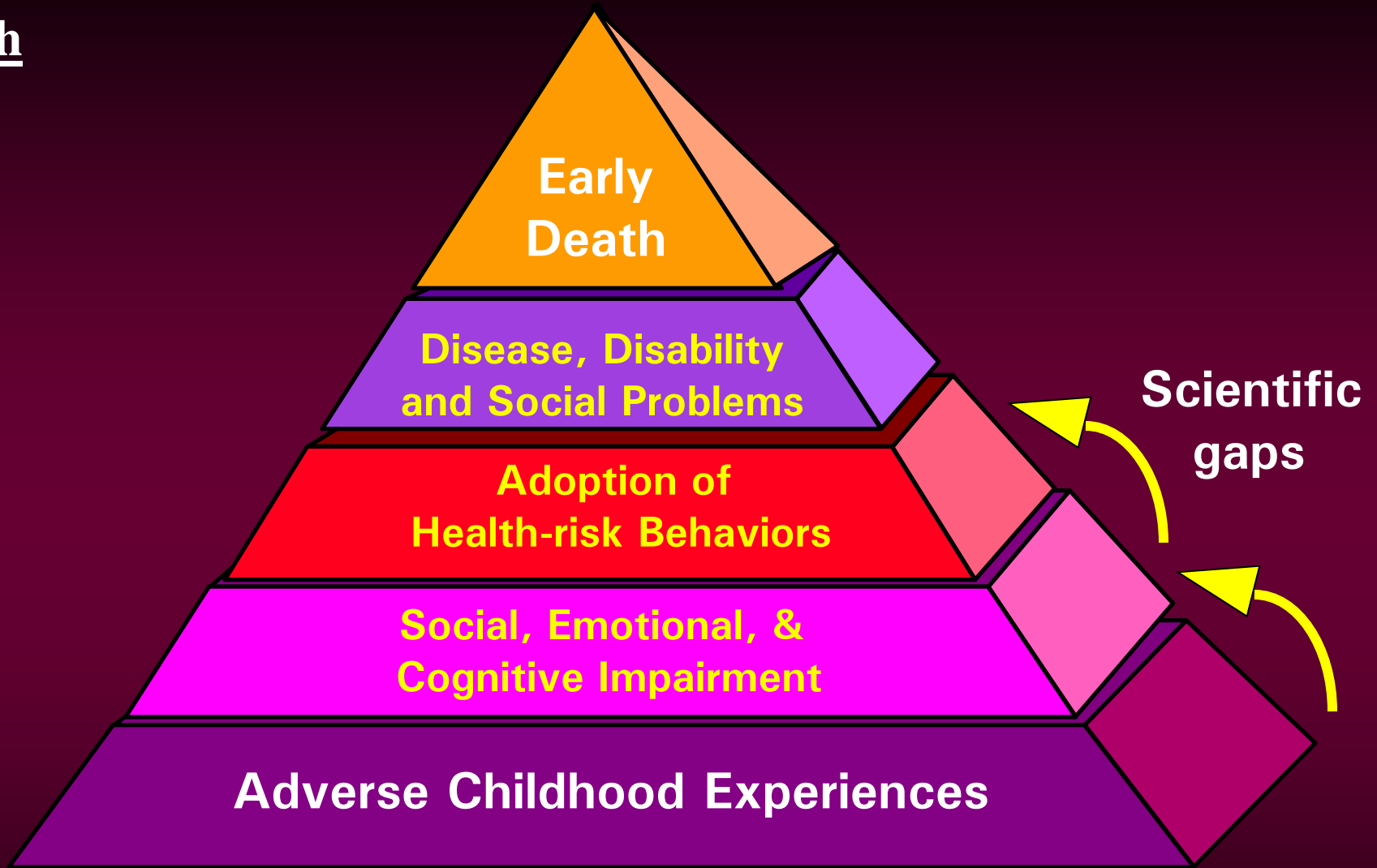


Death



Conception

The Adverse Childhood Experiences (ACE) Study

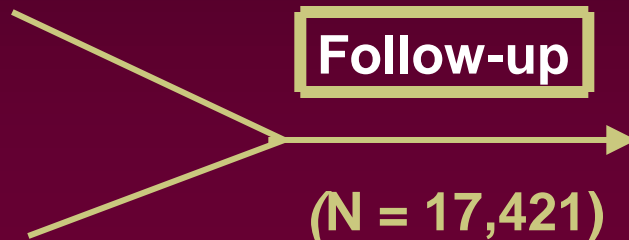
Examines the health and social effects of ACEs throughout the lifespan among 17,421 members of the Kaiser Health Plan in San Diego County

What do we mean by Adverse Childhood Experiences?

- childhood abuse and neglect
- growing up with domestic violence, substance abuse or mental illness in the home, parental discord, crime

ACE Study Design

**Survey Wave I
(N=9,508)**



**Survey Wave II
(N=8,667)**

*All medical evaluations
abstracted from both waves*

Mortality

National Death Index

Morbidity

Hospital Discharge

Outpatient Visits

**Emergency room
visits**

Pharmacy Utilization

Adverse Childhood Experiences Are Common

Household dysfunction:

Substance abuse	27%
Parental sep/divorce	23%
Mental illness	17%
Battered mother	13%
Criminal behavior	6%

Abuse:

Psychological	11%
Physical	28%
Sexual	21%

Neglect:

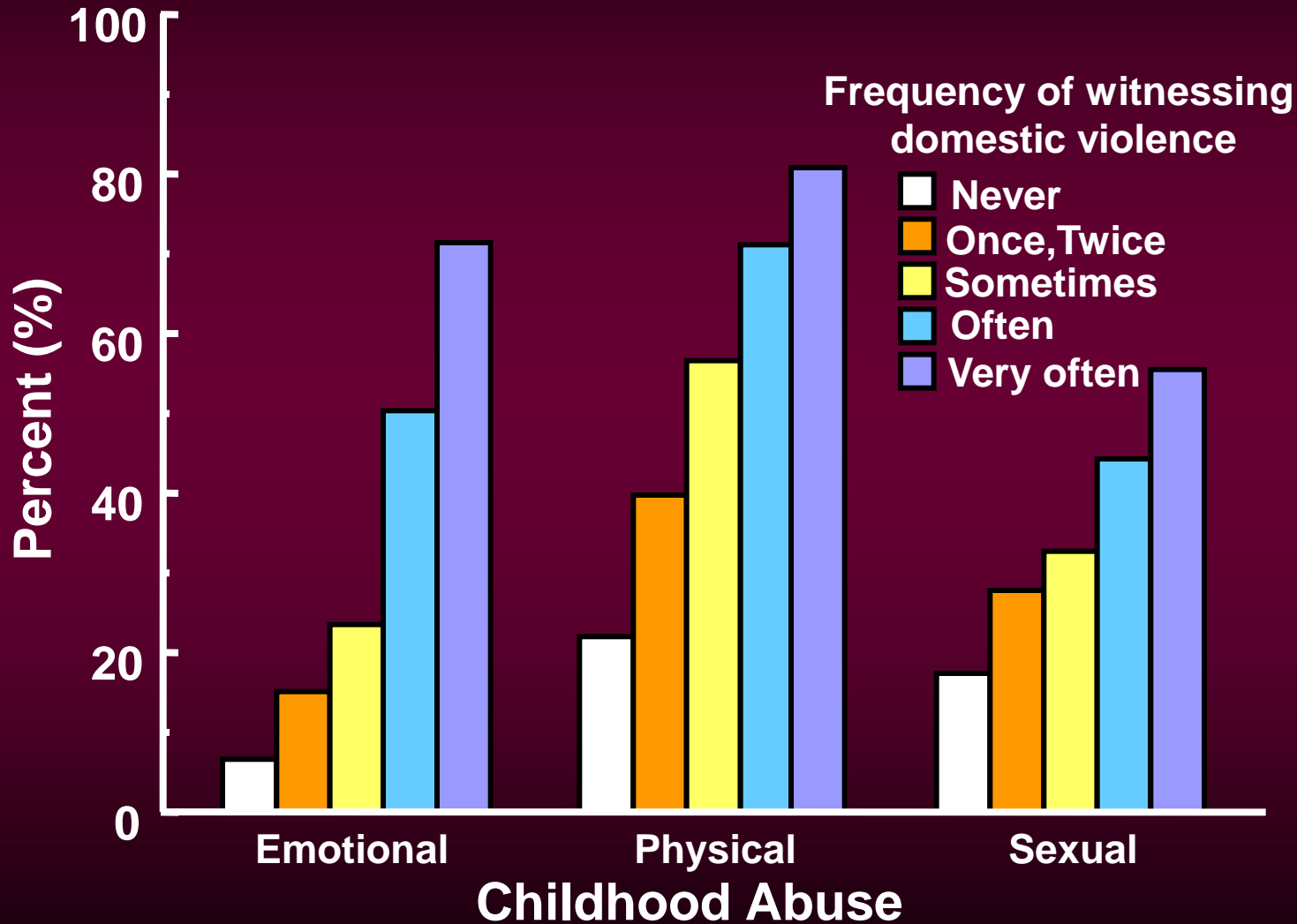
Emotional	15%
Physical	10%

Adverse Childhood Experiences Rarely Occur in Isolation...

They come in **groups.**

Domestic Violence and the Risk of Other ACEs...

Prevalence of Childhood Abuse by Frequency of Witnessing Domestic Violence



ACEs tend to come in groups...

Additional ACEs (%)

	1	2	3	4	<u>≥</u> 5
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If you had:

A battered mother	95	82	64	48	52
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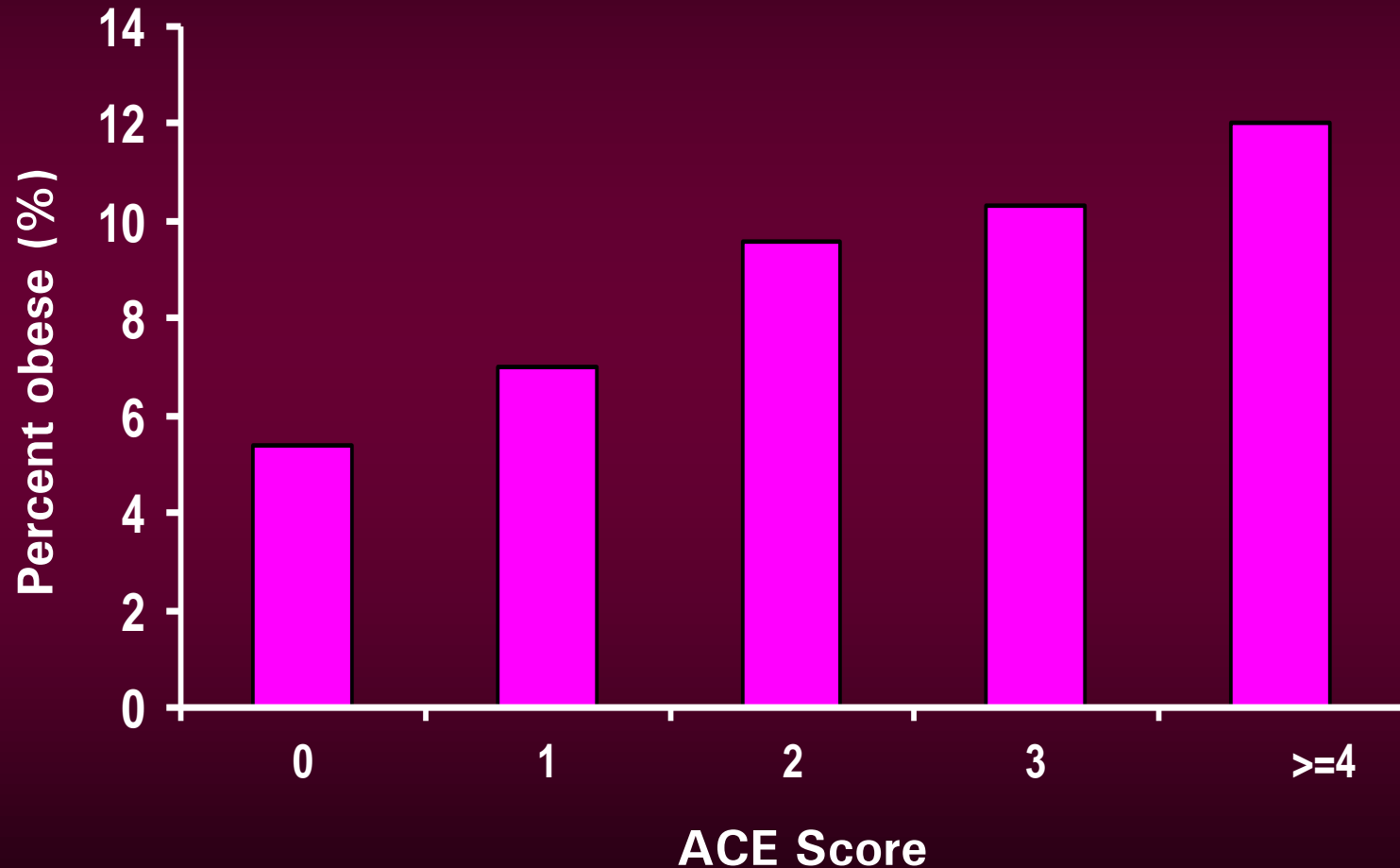
Adverse Childhood Experiences Score Trauma “Dose”

Number of individual types of adverse childhood experiences were summed...

<u>ACE score</u>	<u>Prevalence</u>
0	33%
1	26%
2	16%
3	10%
4 or more	16%

ACEs and Obesity...

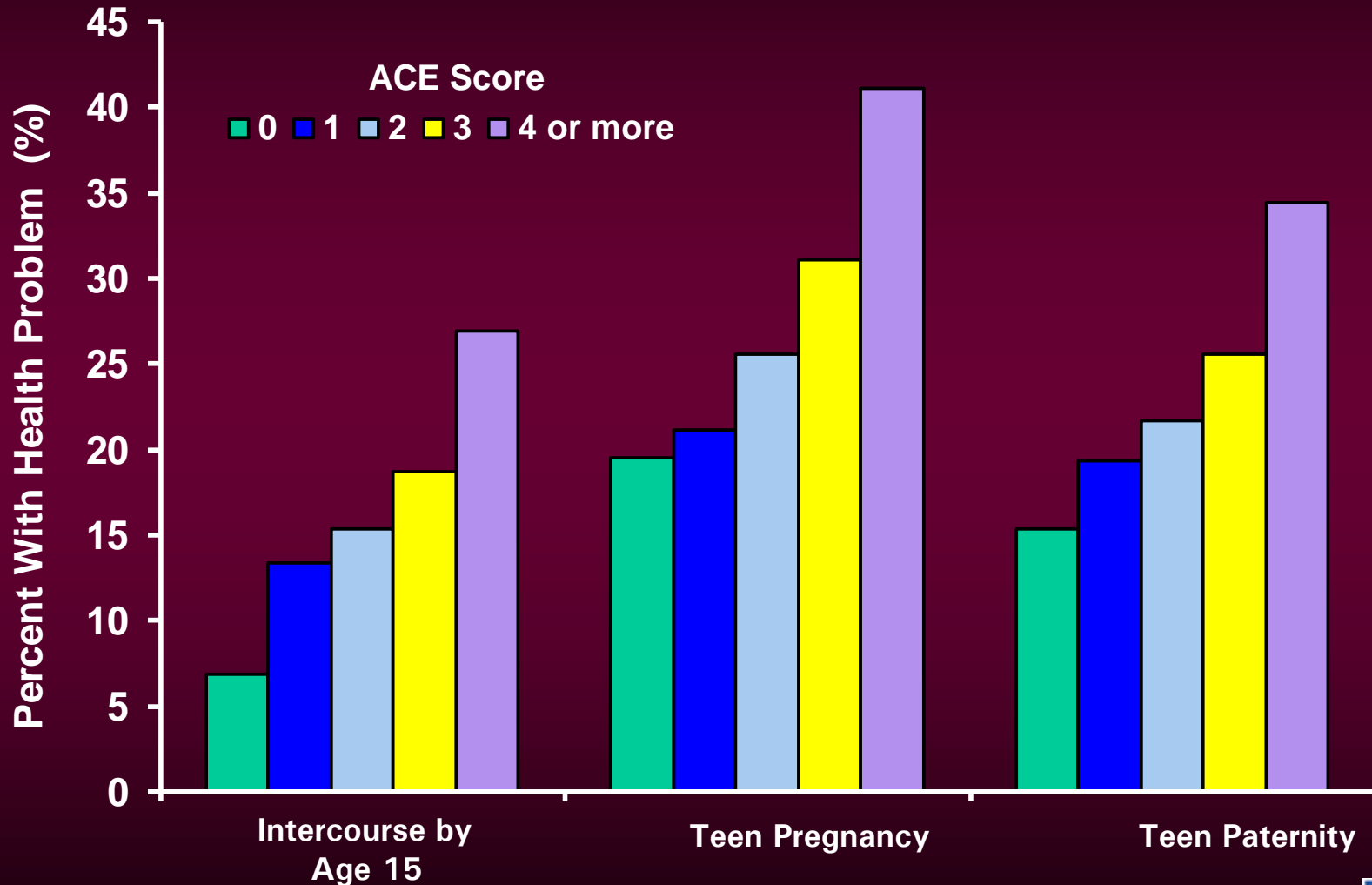
The ACE Score and the Prevalence of Severe Obesity



ACEs and Reproductive Health...

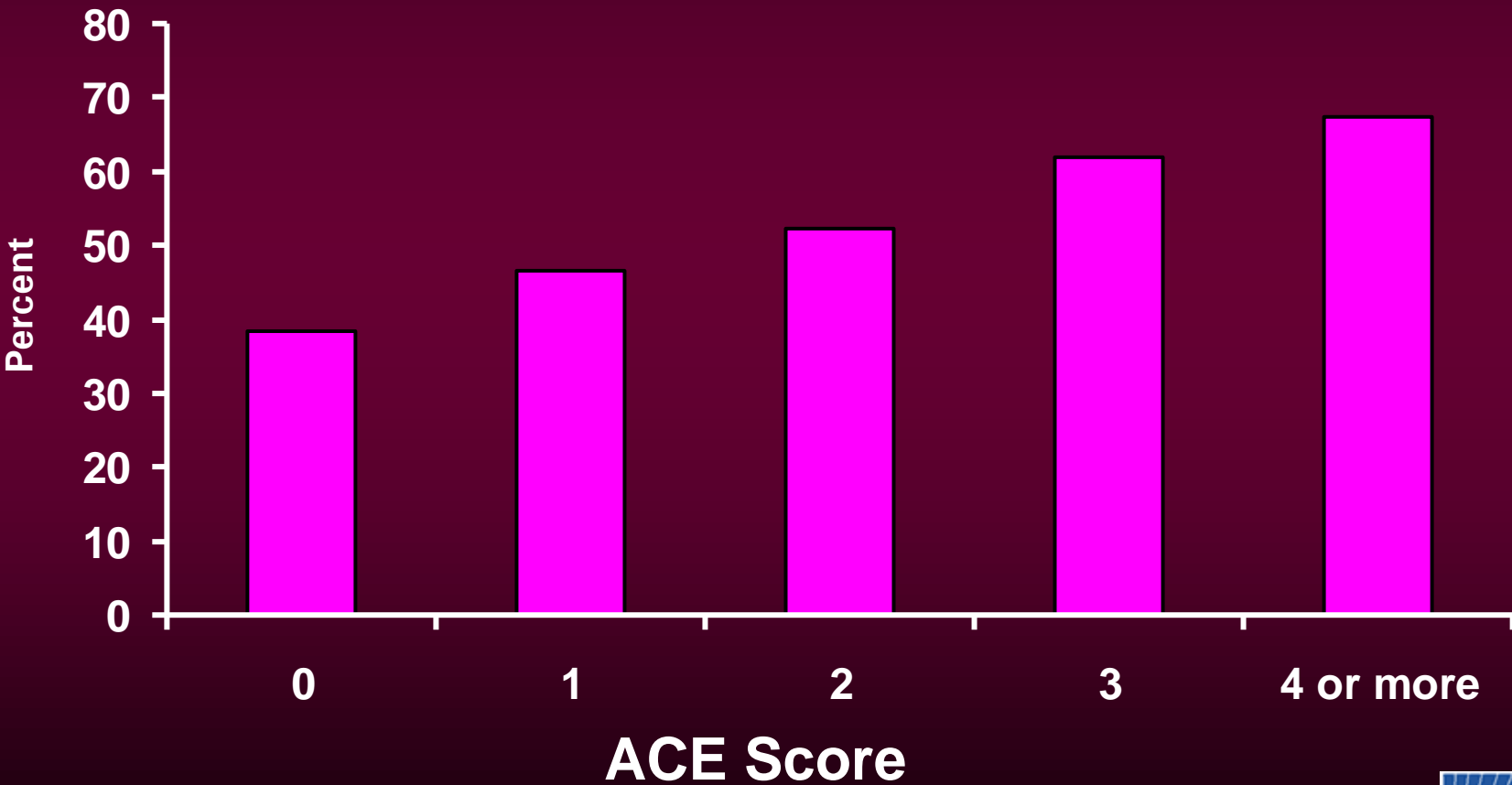
Teen and Unintended Pregnancy

ACE Score and Teen Sexual Behaviors



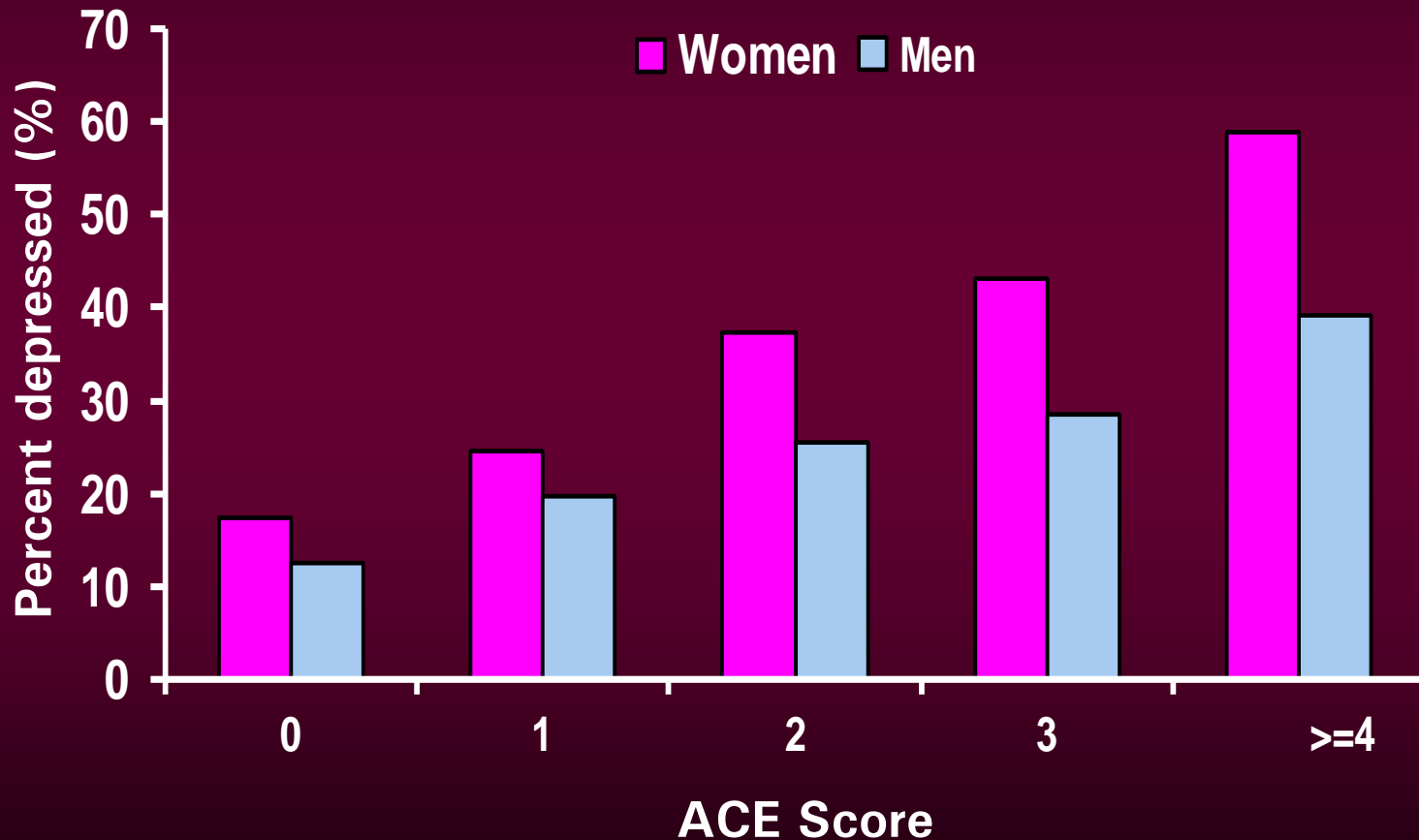
Percent of Women Who Ever Had an Unintended Pregnancy by ACE Score

Pink = unintended pregnancy

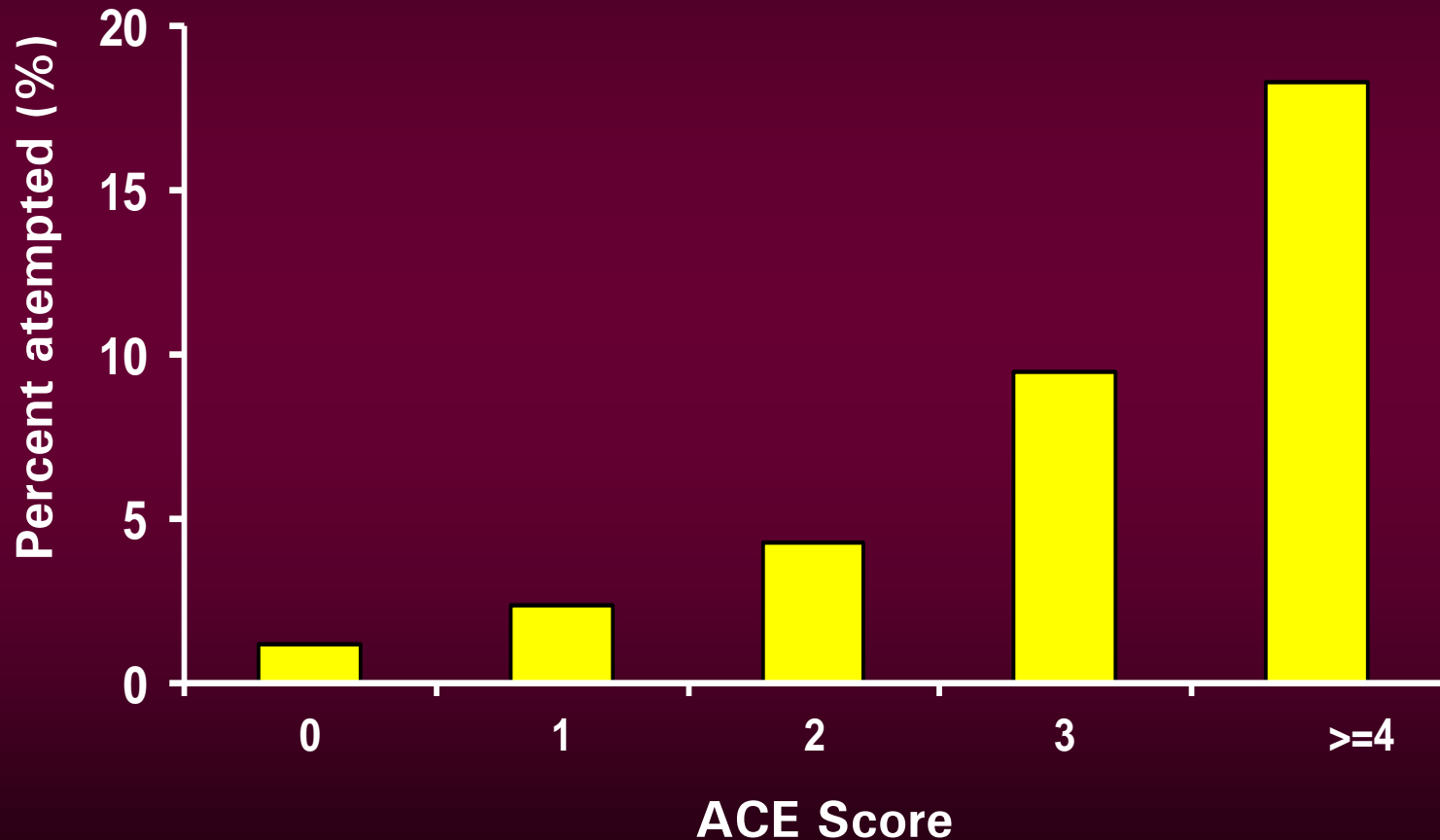


ACEs and Mental Health...

The ACE Score and a Lifetime History of Depression

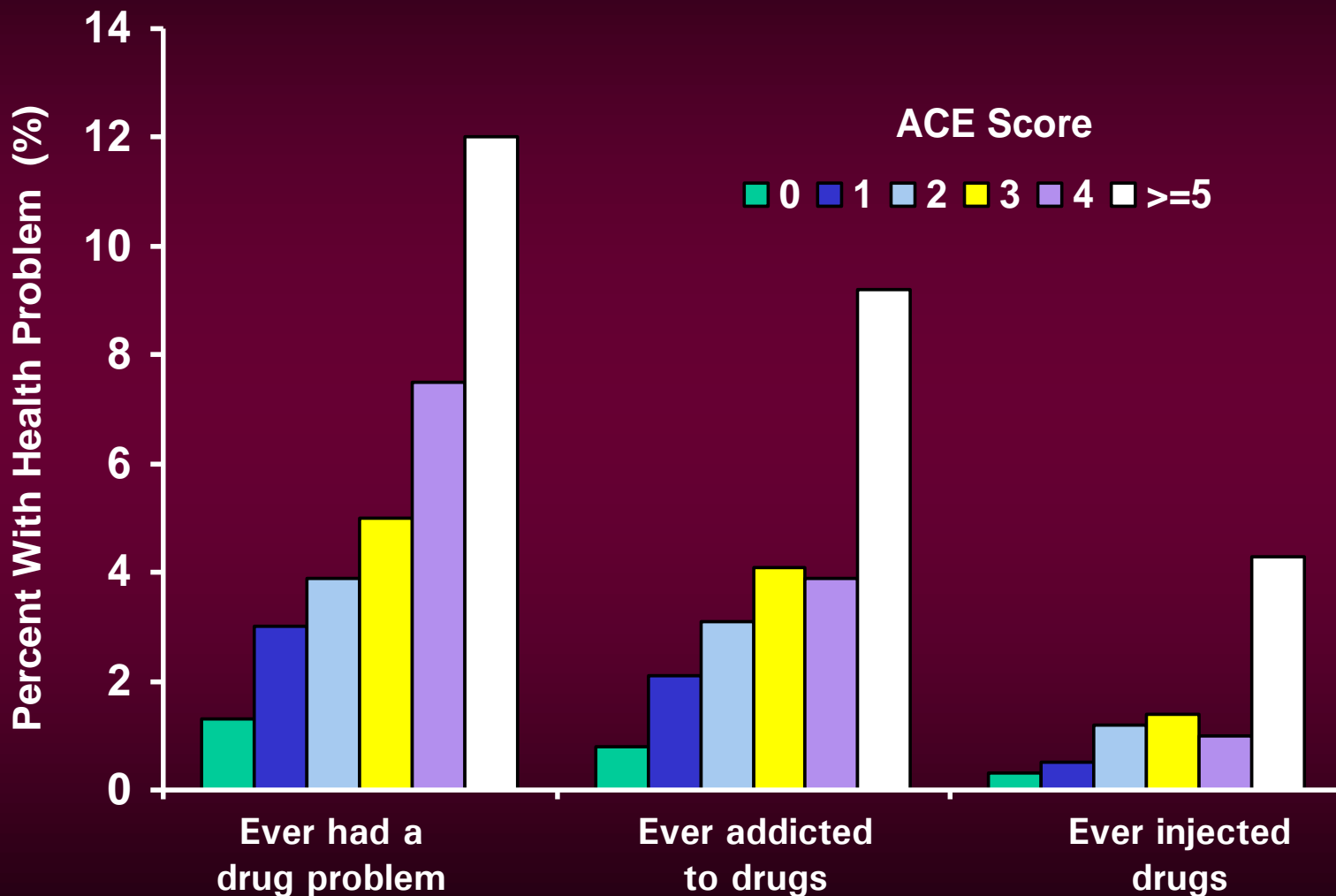


The ACE Score and the Prevalence of Attempted Suicide

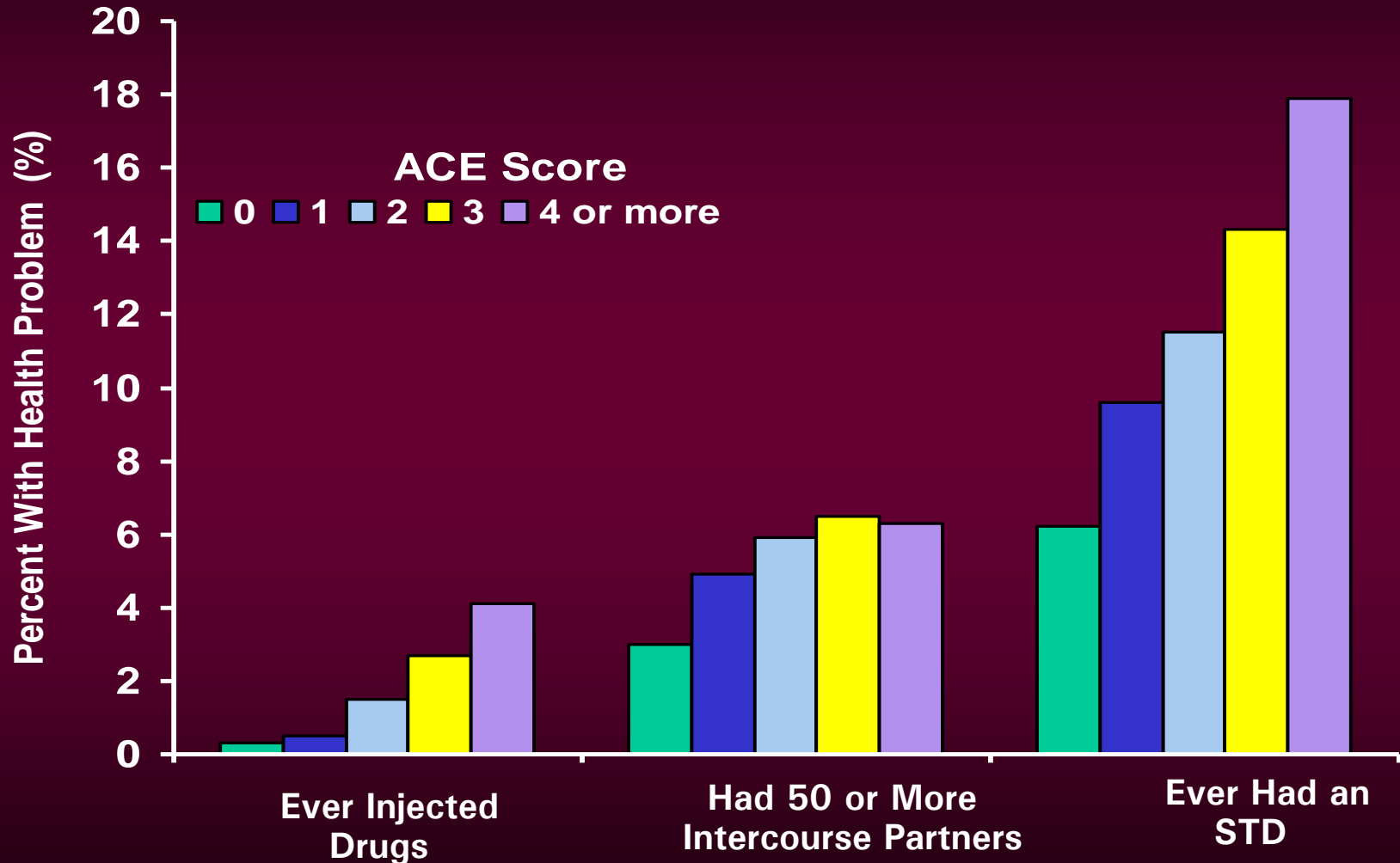


ACEs and Other Leading Health Problems...

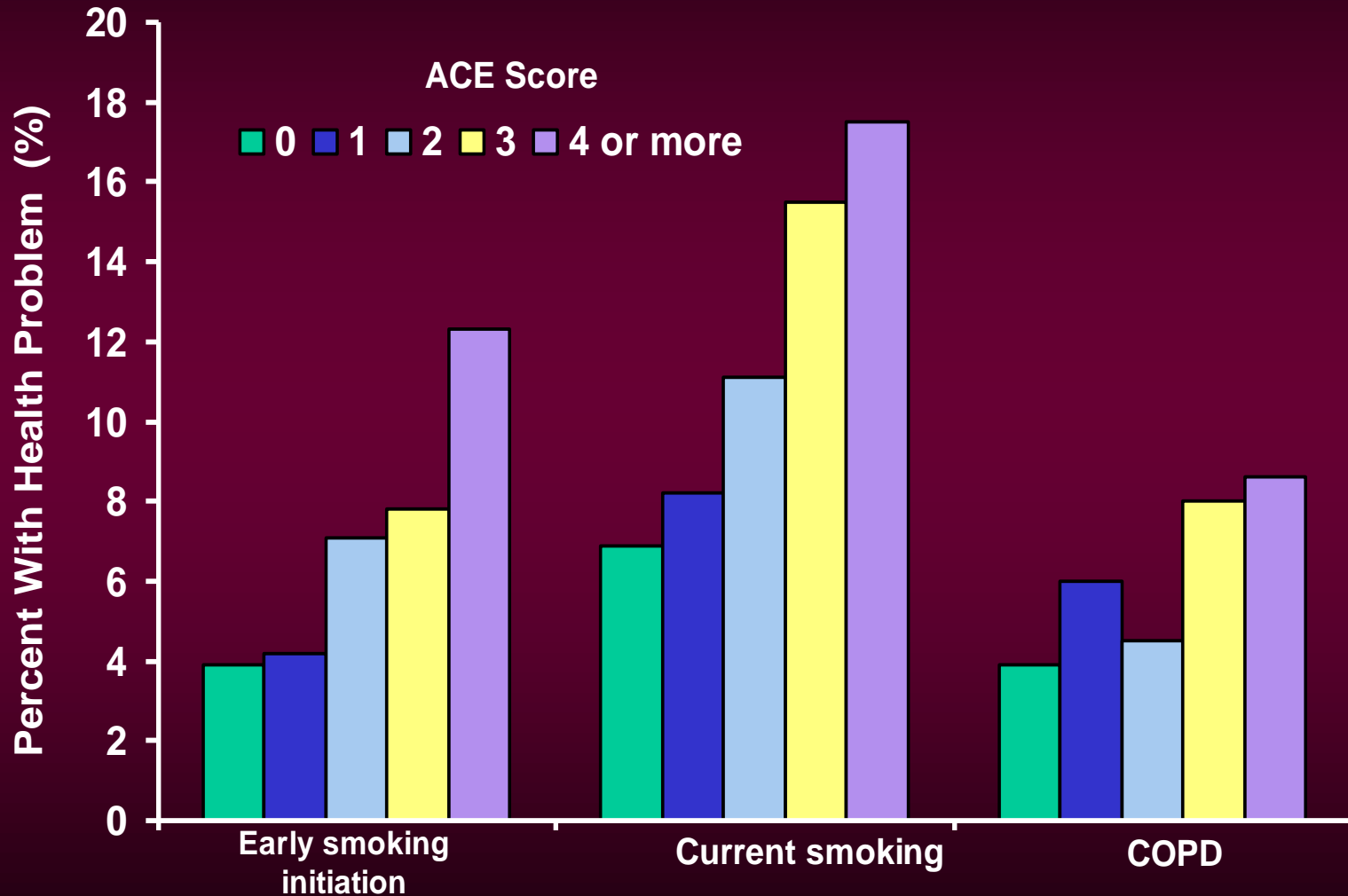
ACE Score and Drug Abuse



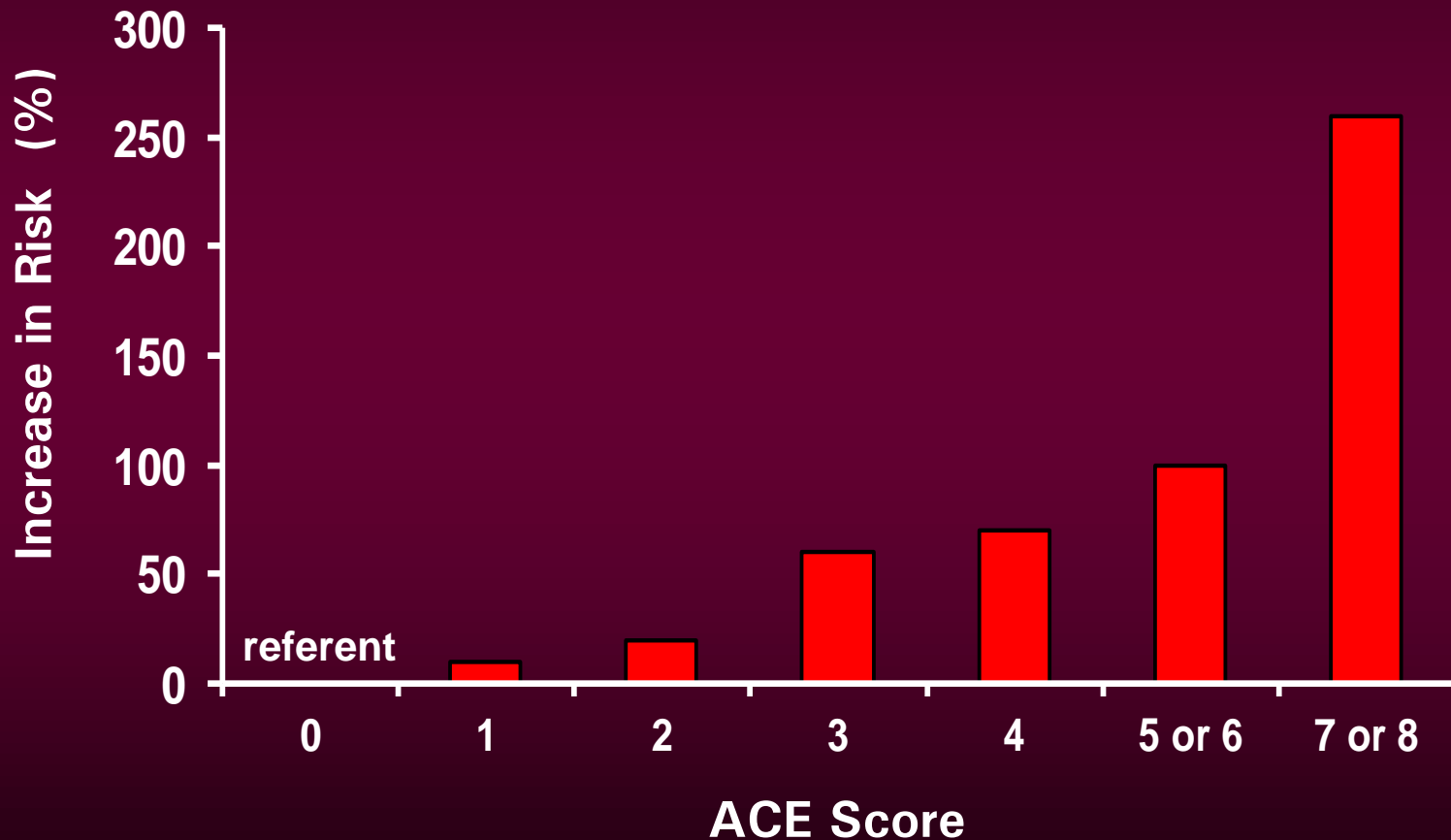
ACE Score and HIV Risks



ACEs, Smoking, and Lung Disease



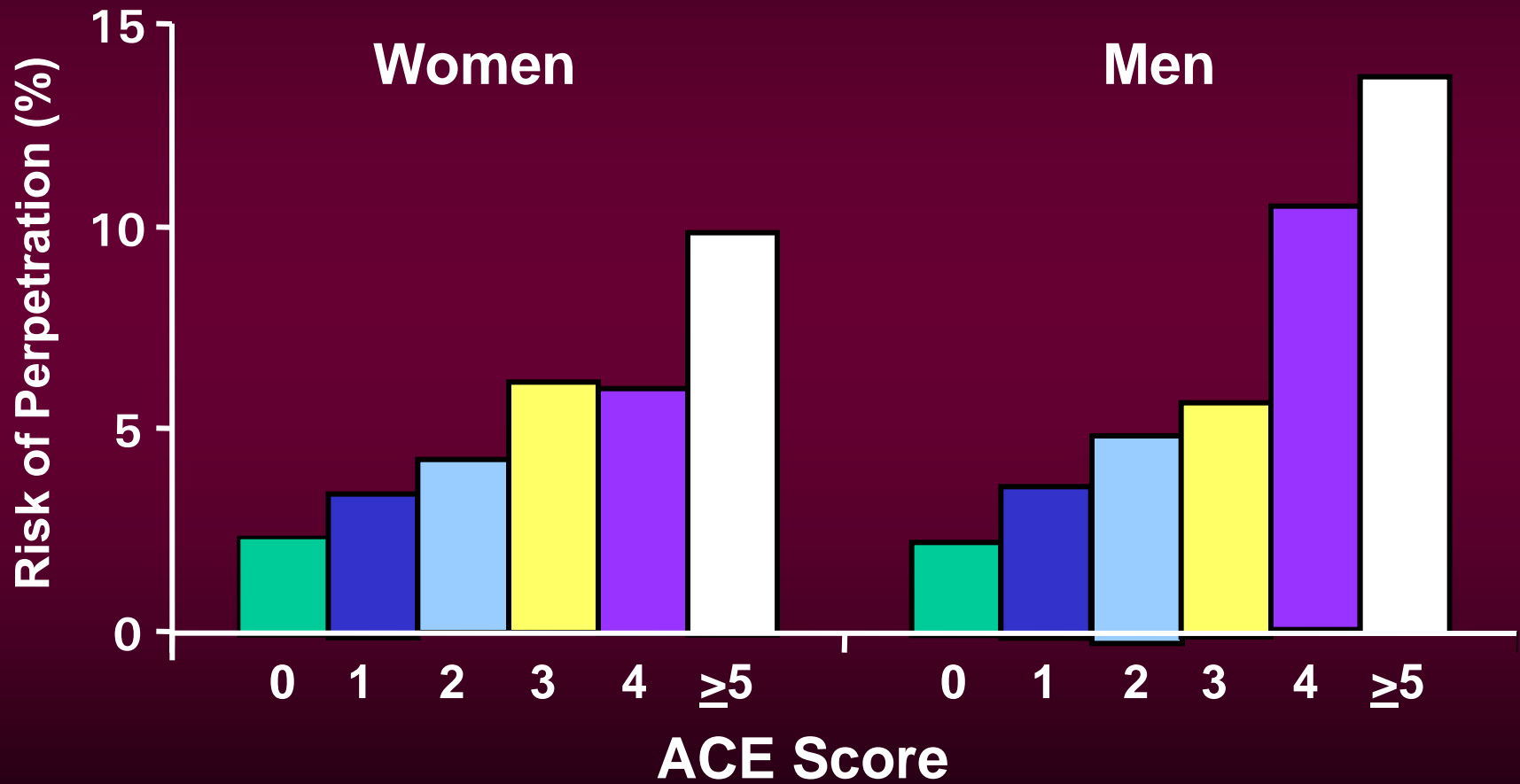
The ACE Score and the Risk of Coronary Heart Disease



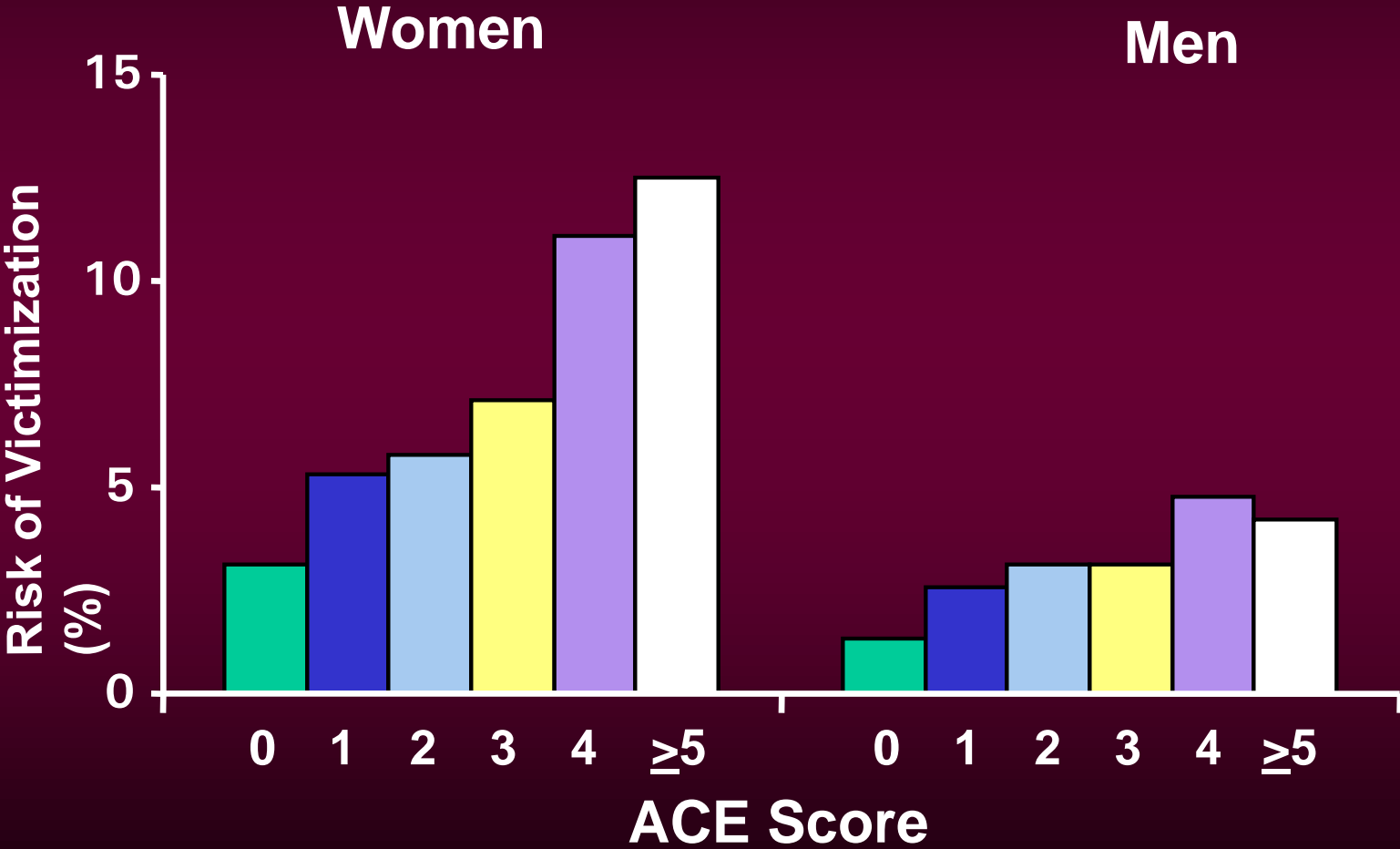
ACEs and the Risk of Domestic Violence as an Adult..

A Cycle...

ACE Score and the Risk of Perpetrating Domestic Violence



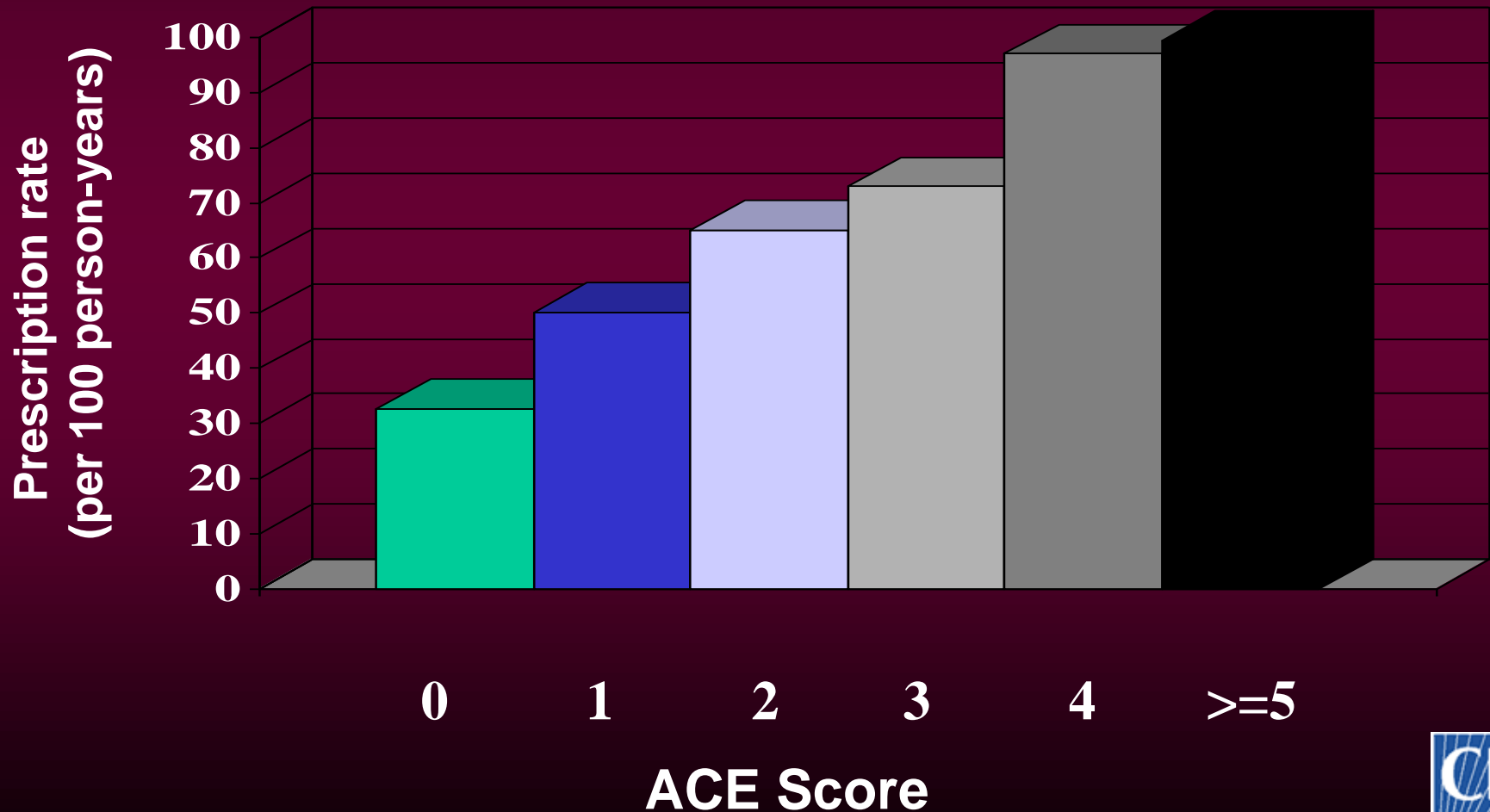
ACE Score and the Risk of Being a Victim of Domestic Violence



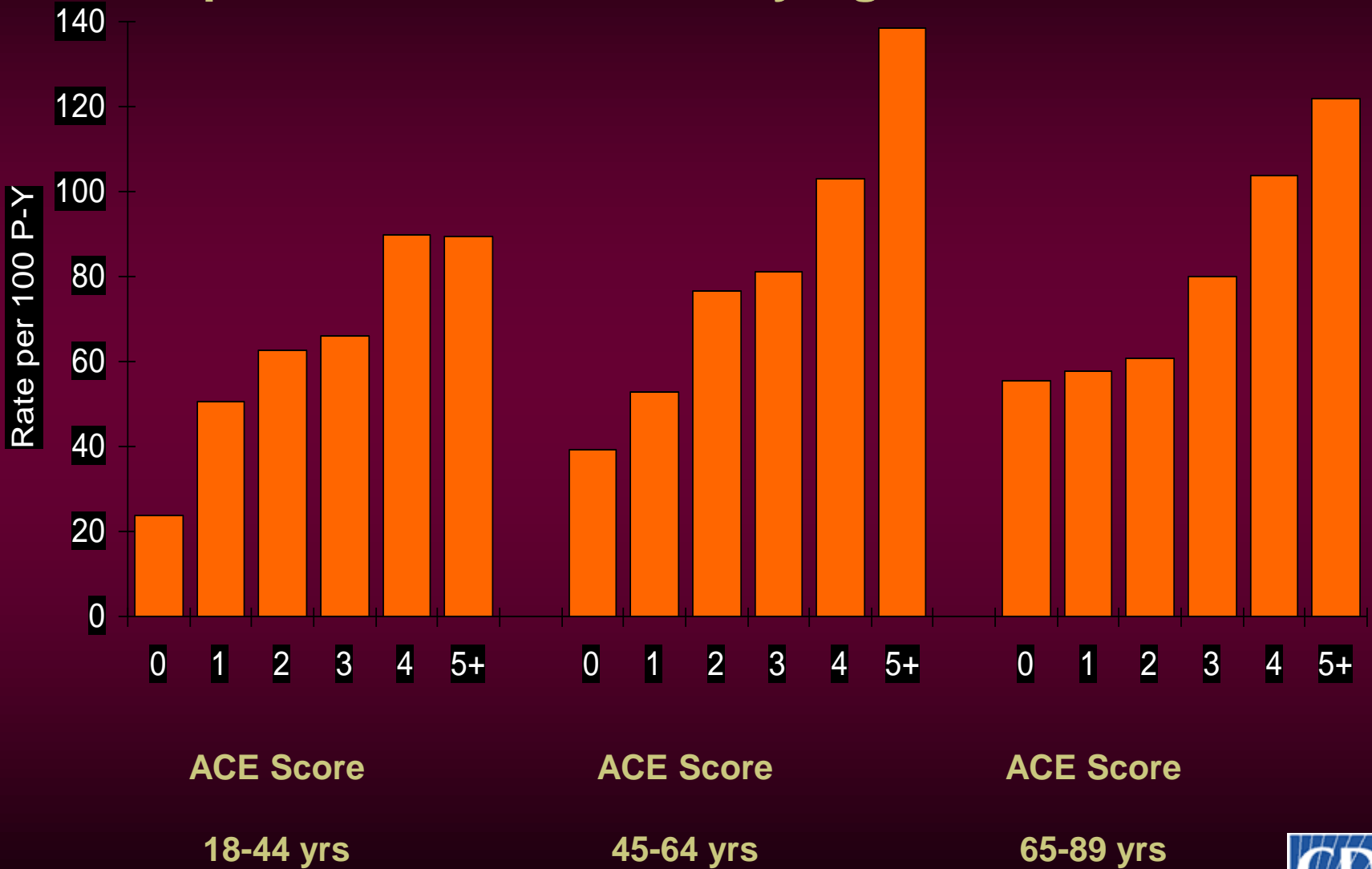
Direct Health Care Costs of ACEs:

The Burden of Prescription Drugs

ACE Score and Rates of Antidepressant Prescriptions



ACE Score and Rates of Prescribed Antidepressant Medications by Age, 1997-2004



Adverse Childhood Experiences as a Clinical and Public Health Issue

ACEs:

- are endemic**
- highly interrelated**
- have a cumulative stressor effect**
- effects are biologically plausible**

Adverse Childhood Experiences As a National Health Issue

ACEs have a strong influence on:

- adolescent health**
- reproductive health**
 - smoking**
 - alcohol abuse**
 - illicit drug abuse**
 - sexual behavior**
 - mental health**
- risk of revictimization**
- stability of relationships, homelessness**
- performance in the workforce**

Adverse Childhood Experiences As a National Health Issue

ACEs increase the risk of:

- Heart disease**
- Chronic Lung disease**
- Liver disease**
- Suicide**
- Injuries**
- HIV and STDs**
- and other risks for the leading causes of death**

The Adverse Childhood Experiences (ACE) Study

- These strength of these findings indicate that:

Adverse Childhood Experiences are a leading determinant of health and social well-being of from adolescence to late adulthood

ACE Study website
www.cdc.gov/nccdphp/ACE

