Social Determinants of Health and Adverse Childhood Events

Denise Abdoo, PhD, CPNP

Objectives

Understand the 5 domains of Social Determinants of Health

Understand how trauma/adversity in childhood can affect health

Holistic, patient-centered health evaluation

What are Social Determinants of Health (SDoH)?

Social Determinants of Health



https://health.gov/healthypeople/priority-areas/social-determinants-health

Social Determinants of Health Copyright-free



Economic Stability

• The connection between people's financial resources (income, cost of living, socioeconomic status) and their health

- Key Issues Include:
 - Poverty
 - Employment
 - Food security
 - Housing stability

Education Access and Quality

This is the connection of education to health and wellbeing

- Key issues include:
 - Graduating from High School
 - Enrollment in higher education
 - General educational attainment
 - Literacy
 - Early childhood education and development

Healthcare Access and Quality

 Connection between one's access to and understanding of health care services and one's own health

- Key issues include:
 - Access to health care
 - Access to Primary Care
 - Health insurance coverage
 - Health literacy

Neighborhood and Built Environment

 The connection between where a person lives (housing, neighborhood, and environment) and their health and wellbeing

- Key issues include:
 - Quality of housing
 - Access to transportation
 - Availability of healthy foods
 - Air and water quality
 - Neighborhood crime and violence

Social and Community Context

 Connection between characteristics of the contexts within which people live, learn, work, and play and their health and wellbeing

- Key issues include:
 - Cohesion within a community
 - Civic participation
 - Discrimination
 - Workplace conditions
 - Incarceration

Who is affected by SDoH?

Nearly everyone

- Why is this important?
 - Research suggests that health behaviors and social and economic factors are primary drivers of health outcomes
 - Social and economic factors can shape an individual's health behaviors

Health and Well-Being Consequences and SDoH

- Morbidity
- Mortality
- Life expectancy
- Heath care expenditures
- Health status
- Functional limitations





TABLE 1: SDOH KEY FOCUS AREAS FOR CDPHE RESEARCH PAPERS

| KEY AREA | ELEMENTS | CDPHE HMA FOCUS TOPICS |
|--|---|---|
| Neighborhood and Physical Environment | Access to healthy food, quality housing; exposure to environmental conditions, crime, violence | Quality Housing |
| Health and Health Care | Access to health care and primary care; health literacy | Family Friendly Business Practices |
| Social and Community Context | Social cohesion, civic participation, discrimination, incarceration | + Neighborhood Fabric and Social Connectedness + Criminal Justice: Cradle to Prison Pipeline |
| Education | Early childhood education and development, high school graduation, enrollment in higher education, language and literacy | + Childcare + Early Childhood Education + K-12 Education |
| Economic Stability | Poverty, employment, food insecurity, housing instability | + Economic Opportunity |

https://cdphe.colorado.gov/sites/cdphe/files/PSD_SDOH_Meta -Analysis_brief.pdf

What about Adverse Childhood Experiences (ACEs)?

- ACEs are potentially traumatic events that occur in childhood (0-17 years)
 - Experiencing violence, abuse, negeclt
 - Witnessing violence at home or in the community
 - Family member suicide (either attempt or death by)
 - Substance misuse problems
 - Behavioral health problems
 - Instability due to parental separation or household member incarceration

Three Types of ACEs

ABUSE

NEGLECT

HOUSEHOLD DYSFUNCTION



Physical



Physical



Mental Illness



Incarcerated Relative



Emotional



Emotional



Mother treated violently



Substance Abuse



Sexual



Divorce

ACEs are linked to

- Chronic health problems
- Mental illness
- Substance misuse problems

As an adolescent or adult

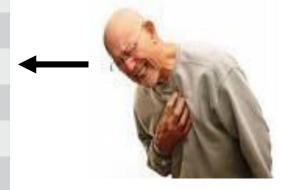
ACEs might negatively impact

- Education
- Employment opportunities
- Earning potential

Adverse Childhood Experiences (ACEs) Study

| 1.7x |
|------|
| 1.5x |
| 1.4x |
| 1.3x |
| 1.4x |
| 1.4x |
| 1.4x |
| 1.3x |
| 1.7x |
| |

ACEs increase risk of heart disease*



*After correcting for age, race, education, smoking & diabetes

Cognition

- Impaired readiness to learn
- Difficulty problem-solving
- Language delays
- Problems with concentration
- Poor academic achievement

Brain development

- Smaller brain size
- Less efficient processing
- Impaired stress response
- Changes in gene expression

Physical health

- Sleep disorders
- Eating disorders
- Poor immune system functioning
- Cardiovascular disease
- Shorter life span

Behavior

- Poor self-regulation
- Social withdrawal
- Aggression
- Poor impulse control
- Risk-taking/illegal activity
- Sexual acting out
- Adolescent pregnancy
- Drug and alcohol misuse

Impact of Childhood Trauma

Emotions

- Difficulty controlling emotions
- Trouble recognizing emotions
- Limited coping skills
- Increased sensitivity to stress
- Shame and guilt
- Excessive worry, hopelessness
- Feelings of helplessness/lack of self-efficacy

Mental health

- Depression
- Anxiety
- Negative self-image/low self-esteem
- Posttraumatic Stress Disorder (PTSD)
- Suicidality

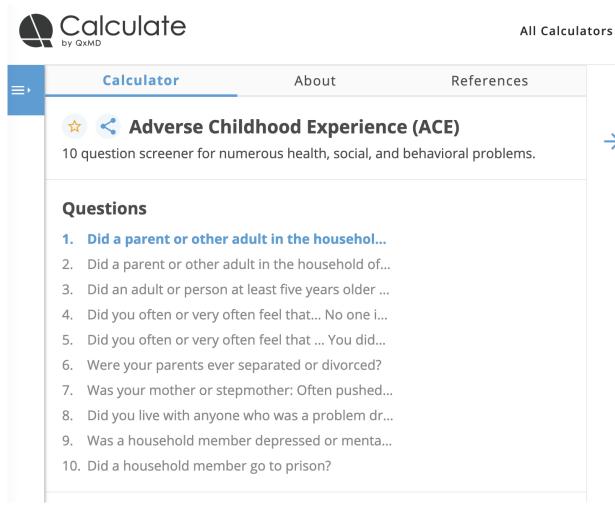
Relationships

- Attachment problems/ disorders
- Poor understanding of social interactions
- Difficulty forming relationships with peers
- Problems in romantic relationships
- Intergenerational cycles of abuse and neglect

How big is the problem?

- ACEs are common
 - 61% of adults surveys (25 states) reported at least one type of ACE before 18 years of age
 - 1 in 6 reported they had experiences 4 or more types of ACEs
- Women and several racial/ethnic minoritized groups are at greater risk for experiencing 4 or more types of ACEs
- ACEs are costly a 10% reduction in ACEs in the North America could equate to an annual savings of \$56 billion dollars

Calculating ACEs



1. Did a parent or other adult in the household often or very often...
 Swear at you, insult you, put you down, or humiliate you? or act in a
 way that made you afraid that you might be physically hurt?

Support

Login

Sign Up

| Yes |
|-----|
| No |

More Information

Become a Contributor

While you were growing up, during your first 18 years of life:

How do ACEs and SDoH intersect?

- ACEs and SDoH can cause toxic stress
- Toxic stress is extended or prolonged stress

 Toxic stress can negatively affect child brain development, immune systems, and stress response systems. This in turn can affect a child's attention, decision making, and learning.

How Trauma Affects the Body



- Brain development
- Immune system
- Cardiovascular System
- Metabolism
- Expression of DNA

Important to identify and mitigate trauma exposure!

The Greater Your Trauma Exposure, the Higher Your Risk of...

- Mental Health
 - Depression
 - Anxiety
 - Suicide attempts
 - Panic attacks
- Substance Abuse
 - Alcoholism
 - Current and early initiation smoking
 - Illicit drug use
 - IV drug use
- Behavior
 - Perpetrating IPV
 - Anger management

- Physical Health
 - Cardiovascular disease
 - Diabetes
 - Stroke
 - Cancer
 - Hepatitis
 - Obesity
 - COPD (lung disease)
- Sexual Health
 - Early intercourse
 - Promiscuity (>30 partners)
 - Unplanned pregnancy

Risk and Protective Factors



Risk and Protective Factors

Individual

Young age
Male gender
Special needs
Special populations

Caregiver

Lack of understanding child development

Poor coping

Substance abuse

Untreated mental illness

Young age

Incarceration

Risk Factors

Family

- Interpersonal violence
- Living with unrelated children
 - Poverty
 - Single parent household
 - Homelessness

Community

- Community violence
- Neighborhood disadvantage
 - Lack of resources
 - Discrimination
 - Poor housing

Risk and Protective Factors

Individual

Temperament

Older age

Social emotional competence

Resilience

Protective Factors

Caregiver

Experience

Support

Parenting skills

Training

Accepts help

Coping

Family

- Social connections
 - Routines
 - Basic needs
 - Stability
- Available resources

Community

Free from violence

Access to resources

Outdoor space

Connections

What do we do with SDoH and ACEs?

Acknowledge them

• Think about local, state and federal resources

Supports within your community

Honoring the Role We Play

- Pay attention to patient and family emotional well-being
- Listen deeply and respond to patients and family concerns and questions
- Have a sustained practice of checking-in and providing reassurance
- Seek and use authentic feedback from patients
- Promote relationship with patients

Provider Traumatic Stress

- It is real
- Be intentional about self care
- Support your team and they can support you

Please reach out to discuss challenges as needed

If you are experiencing a mental health crisis, please call the crisis line at

Colorado Crisis Services: 1-844-493-8255

or visit one of their locations as a walk-in https://coloradocrisisservices.org/#map



Questions/Comments?

Thank you!

Denise Abdoo, PhD, CPNP denise.abdoo@childrenscolorado.org

Child Protection Team 720-777-6919