

MICHIGAN ASSOCIATION OF HEALTH PLANS FOUNDATION

Michigan State University Legislative Issues Group Adverse Childhood Experiences

January 27, 2020

01/12/14

NEWS

Early Adversity Increases Physical, Mental, Behavioral Problems, Scientists Report



Dr. Robert Anda & Dr. Vincent Felitti Investigators Centers for Disease Control & Prevention, Kaiser Permanente Study

Over 17,000 study participants

The ACE Study confirms, with scientific evidence, that adversity early in life increases physical, mental and behavioral problems later in life.



ADVERSE CHILDHOOD EXPERIENCES

The Most Powerful Determinate of the Public's Health

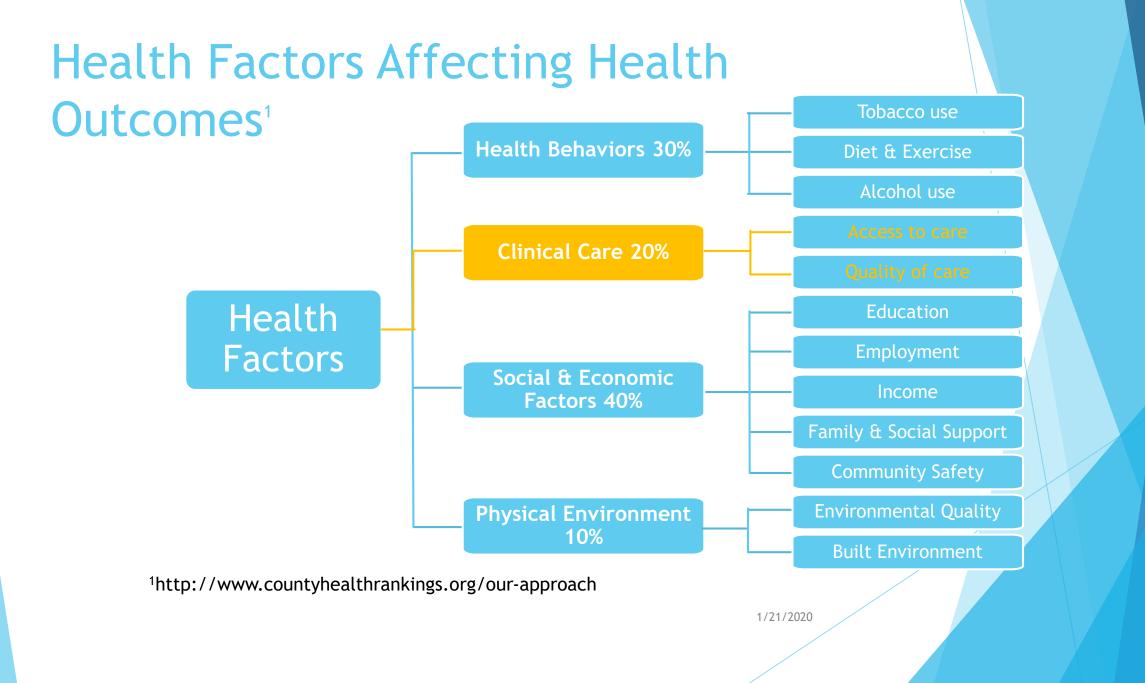
Abuse and Neglect

- 1. Child physical abuse
- 2. Child sexual abuse
- 3. Child emotional abuse
- 4. Emotional Neglect
- 5. Physical Neglect

Indicators of Family Dysfunction

- 6. Mentally ill, depressed or suicidal person in the home
- 7. Drug addicted or alcoholic family member
- 8. Witnessing domestic violence against the mother
- 9. Parental discord indicated by divorce, separation, abandonment
- 10. Incarceration of any family member

ACE Score: the number of categories of adverse childhood experience to which a person was exposed.



Adverse Childhood Experiences

The Adverse Childhood Experiences (ACE) Study

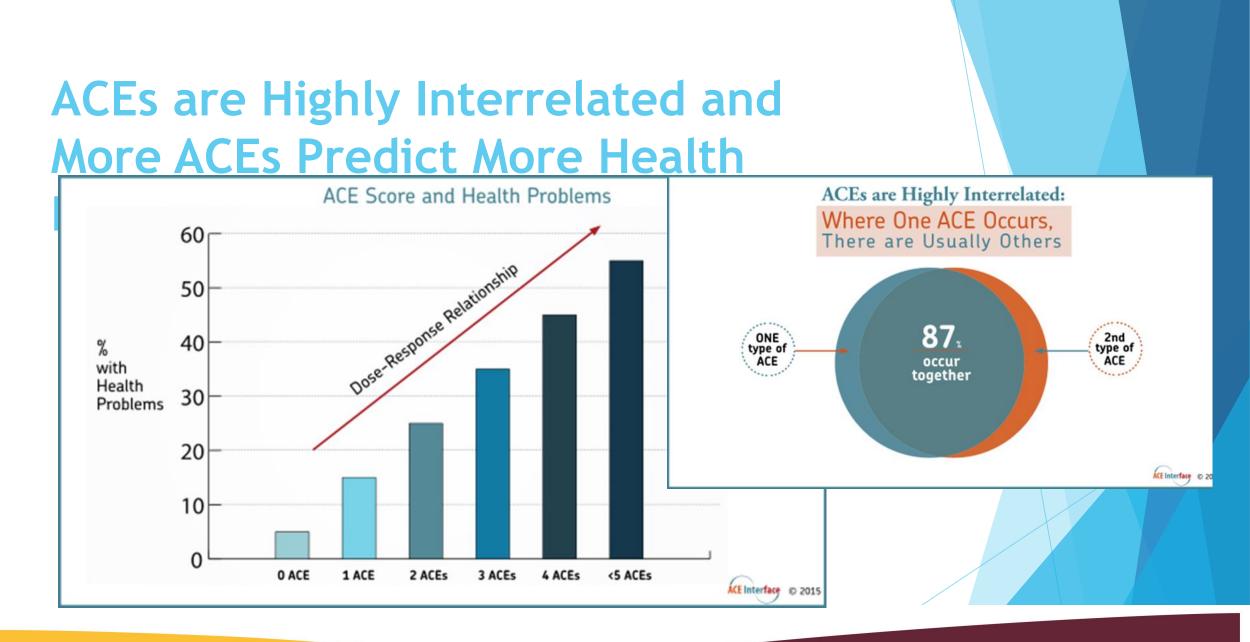


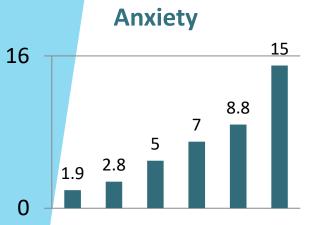
- "Probably the most important public health study you never heard of"
- ACEs sometimes referred to as toxic stress or childhood trauma
- Adverse Childhood Experiences (ACEs) are:

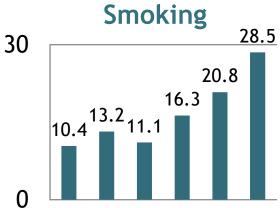
 - very common, and strong predictors of health risks & disease from adolescence to adulthood
- This combination of findings makes ACEs one of the leading, if not the leading determinant of the health & social well-being of our nation

Adverse Childhood Experiences ARE COMMON

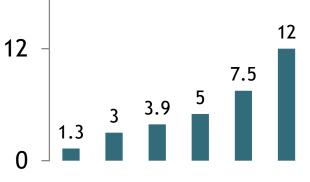




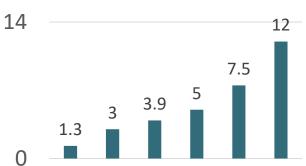


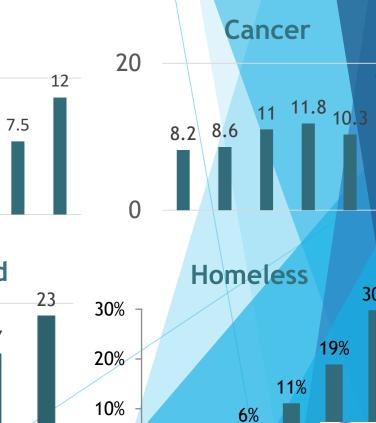












30

MH Treatme

11

7.3

14 15.5

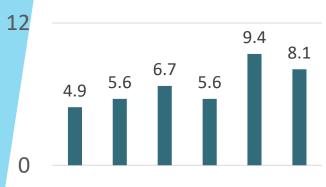
24.5

30%

ÁCE Interface

19.3

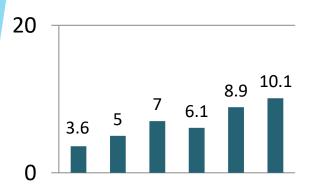
Cardio Vascular Disease



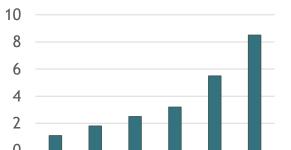
14 11.7 7.5 8 7.5 7.9 6.1

Diabetes

Work Injury/Illness













ACEs Related Illnesses & Social Problems

Alcoholism & Alcohol Abuse

Chronic Obstructive Pulmonary Disease

Coronary Heart Disease

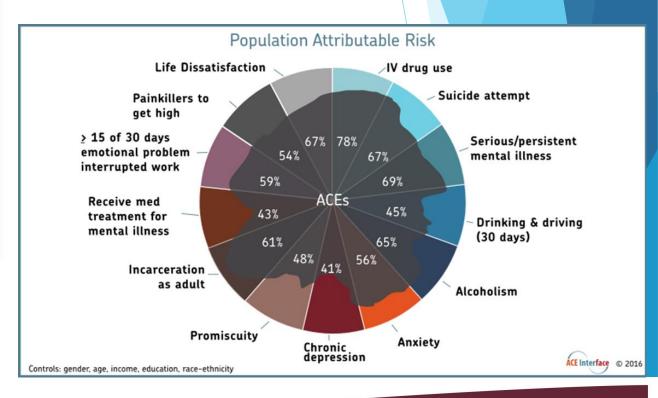
Depression

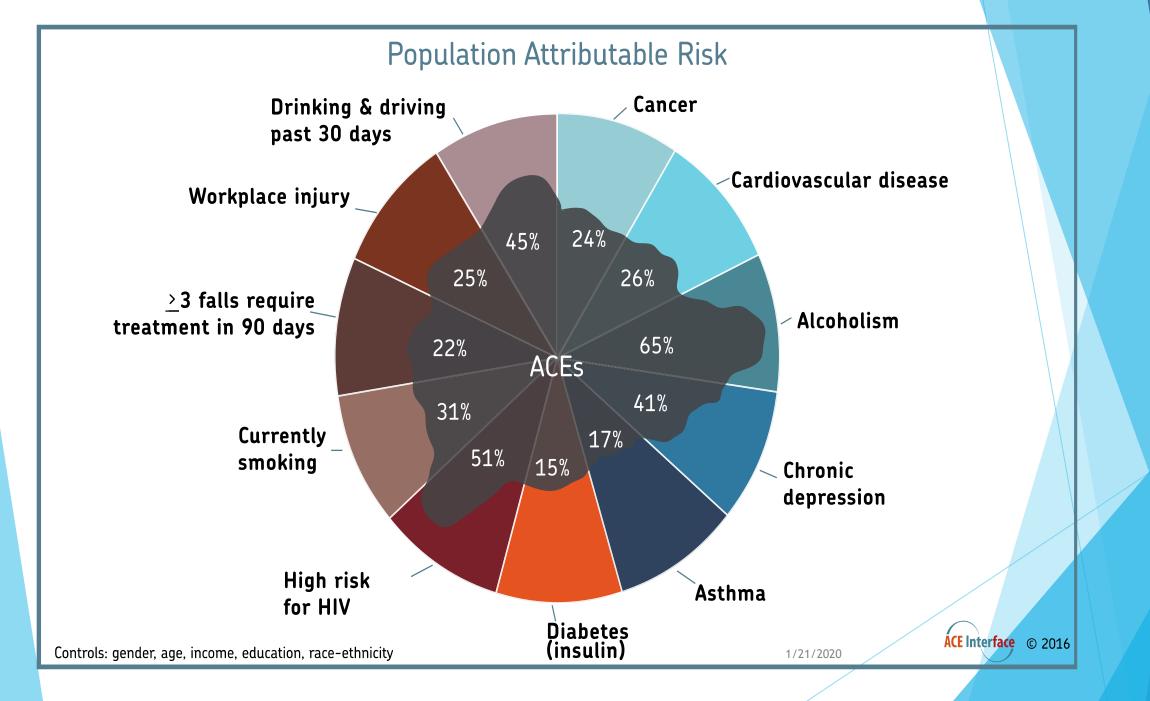
Drug Abuse & Illicit Drug Use

Fetal Death

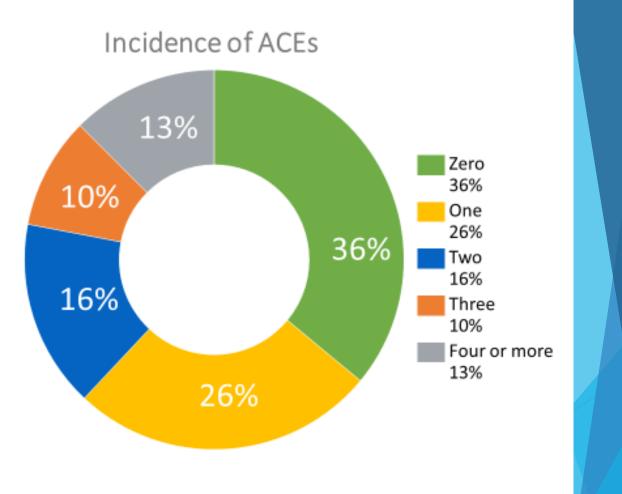
Intimate Partner Violence

Liver Disease Mental Health Problems Obesity Sexual Behavior Problems Smoking Unintended Pregnancy Violence Workplace Problems

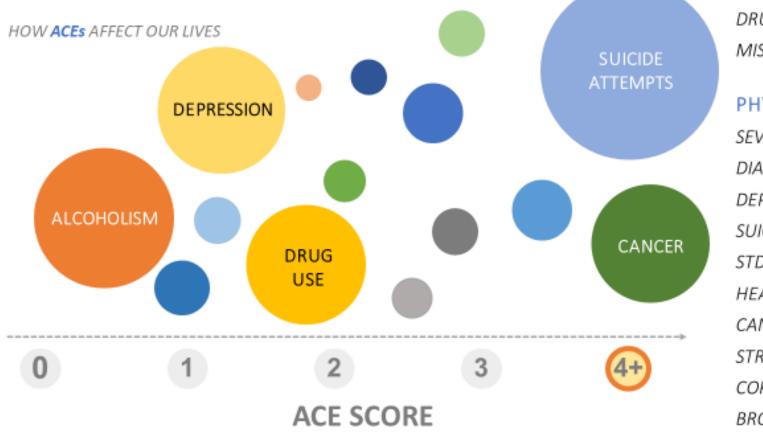




Almost 2/3 of adults surveyed reported at least one Adverse Childhood Experience. Where one ACE occurs, there are usually others-they are highly interrelated.



ACES CAN HAVE LASTING EFFECTS ON BEHAVIOR & HEALTH





Chronic Depression

Adults with an ACE score of 4 or more were 460% more likely to be suffering from depression.

Current Smoking

1/21/2020

A child with 6 or more categories of adverse childhood experiences is 250% more likely to smoke.

A person with 4 categories of adverse childhood experiences is 260% more likely to have Chronic Obstructive Pulmonary Disease (COPD).

Suicide

The likelihood of adult suicide attempts increased 30-fold, or 3,000%, with an ACE score of 7 or more.

Childhood and adolescent suicide attempts increased 51-fold, or 5,100% with an ACE score of 7 or more. Women with an ACE score of 4+ are 500% more likely to become victims of domestic violence.

They are almost 900% more likely to become victims of rape.

Intravenous Drug Use

A male child with an ACE score of 6 has a 4,600% increase in the likelihood that he will become an IV drug user later in life.

78% of drug injection by women can be attributed to ACEs

ACE and Trauma

Findings of the ACE Study

- ACE score of 6 and higher an almost 20-year shortening of lifespan.
- ACE score of 4 260% more likely to have Chronic Obstructive Pulmonary Disorder (COPD) than a person with an ACE Score of 0.
- ACE score of at least 7 increased the likelihood of childhood/adolescent suicide attempts 51-fold and adult suicide attempts 30-fold.
- ACE scores of 4 or higher increases your chance of having selfacknowledged alcoholism as an adult by 500% (with a history of parental alcoholism).
- ACE scores of 4 or more were 12 times more likely to have attempted suicide, 7 times more likely to be alcoholic, and 10 times more likely to have injected street drugs.

What other research explains the results of the ACE Study?

Researchers who are studying the short- and long-term consequences of childhood adversity say that a "unified science" of human development has emerged that includes the:

- epidemiology of childhood trauma (the CDC-Kaiser ACE Study),
- neurobiology of toxic stress,
- long-term biomedical consequences of toxic stress,
- epigenetic consequences of toxic stress,
- and resilience research.

Source: https://acestoohigh.com/aces-101/

Final Insights from the ACE Study

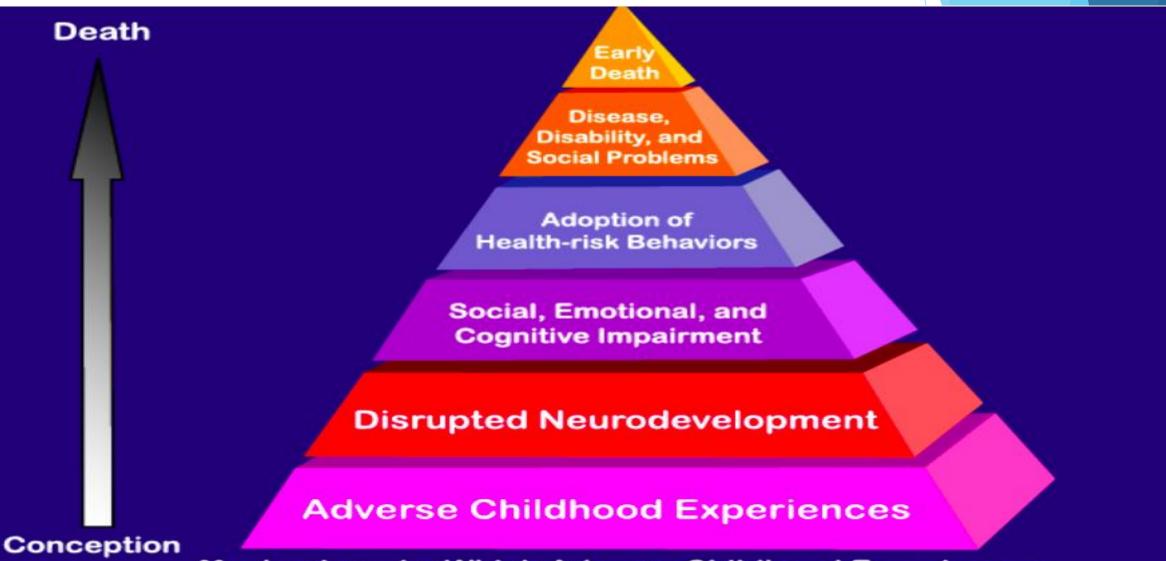
• Adverse childhood experiences <u>are common</u> but typically <u>unrecognized</u> and their link to major problems later in life is strong, proportionate, and logical.

• They are the nation's *most basic* public health problem.

• What presents as the 'Problem' may in fact be an attempted solution and treating the "solution" may threaten people and cause flight from treatment.

Change will be resisted by us in spite of enormous benefits.

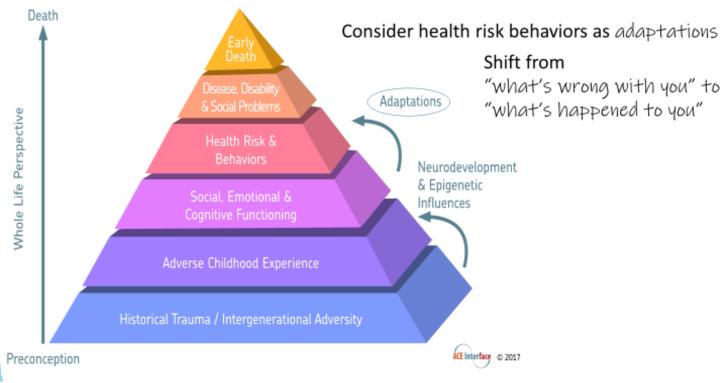
How does that work? | The Impact of Toxic Stress



Mechanisms by Which Adverse Childhood Experiences

Revisit ACEs & Trauma - Consider New Perspectives Engaging Each & ALL To Envision the Future of Healing

This Helps to Change our Thinking



....Thinking beyond ACEs, Trauma

Consider assets, strengths, aspirations, and engagement of individuals and healing-centered approaches.

Shifting to

1/21/2020

- "what's right with you!"
- "I am more than what happened to me, I'm not just my trauma"

- Dr. Shawn Ginwright (2018)

Impact of Stress on Children

- Flight, fight or fright (freeze) response
- Short attention span
- Struggle learning; fall
- Respond to world as constant danger
- Distrustful of adults
- Unable to develop healthy peer re
- Feel failure, despair



Results Oriented Decision Making: Data



Not Safe at Home



Not Welcome at School



Among Adjudicated Youth with High ACE Scores, **85**% were first suspended from school in second grade

Building Resilience to Take down the Pair of ACEs

Adverse Childhood Experiences
Adverse Community

"The 4th Vital Sign"



Respiration 2) Heart Rate 3) Blood pressure
A) <u>Relationships</u>



Upstream: Beginnings of Life Health



Adverse Childhood Experiences



Downstream: Health Over Life Span



Help that Helps

Four Resilience Factors that Make a Difference They are even more powerful when we Layer Up...

- 1. Feeling social/emotional support and hope
- 2. Having 2 or More People Who Help (two or more people who give concrete help when needed)
- 3. Community reciprocity in watching out for children, intervening when they are in trouble, doing favors for one another
- 4. Social Bridging People reach outside their social circle to get help for their family and friends

tace

© 2015

ACE and Other States (Michigan is not alone)

- 17 states have introduced or enacted legislation or Resolutions
 - Study Groups and Task Force Creation
 - Interagency Coordination and Recommended strategies
 - Research
 - EPSDT Inclusion
 - Professional Development Topic
 - Review of policies and protocols using context of ACE
- > 32 States have done one or more ACE Survey (Michigan 2013 & 2017)
- https://acestoohigh.com/2017/10/01/wisconsin-aims-to-be-first-traumainformed-state-seven-state-agencies-lead-the-way/

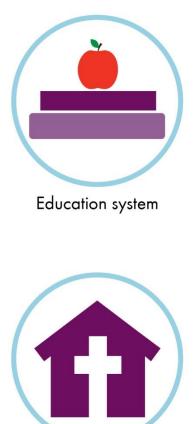
Moving from Isolated Impact...

Countless nonprofit, business & government organizations each work to address social problems independently.





Businesses and the private sector





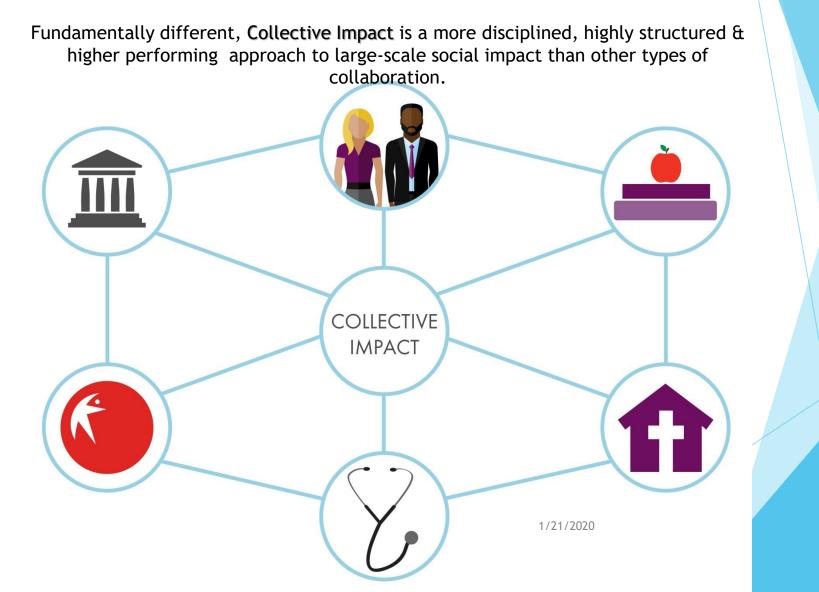
Faith-based organizations and churches



Nonprofit organizations

Medical community

...to Collective Impact!



Adverse Childhood Experiences in Michigan: 2016

Justin Fast Public Sector Consultants

About the Firm

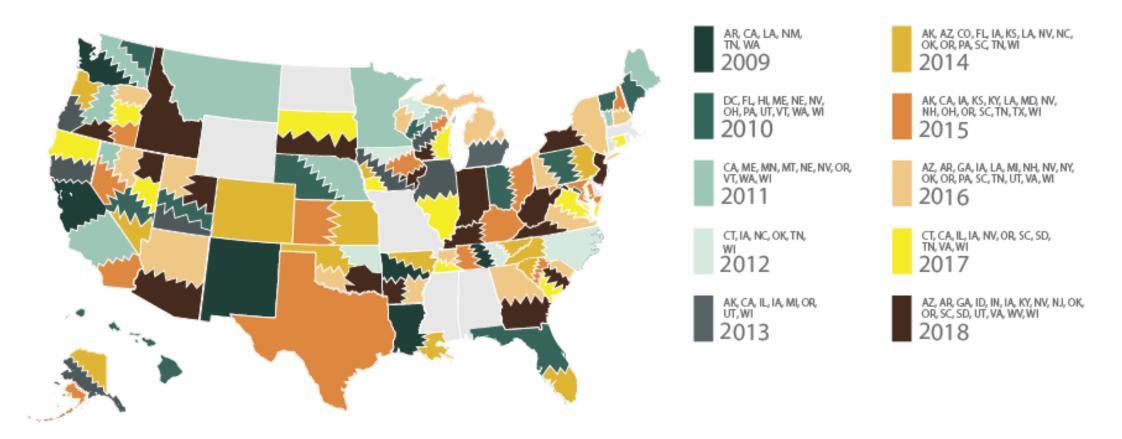
Public Sector Consultants is an objective, nonpartisan research and consulting firm based in Lansing and Detroit. We offer a full suite of services in research, implementation, facilitation, and evaluation.





Many States Are Collecting ACEs Data

Collecting BRFSS ACE Data by Year, 2009-2018



Source: Centers for Disease Control and Prevention. Behavioral Risk Factor Surveillance System Survey ACEData, 2009-2018. Atlanta, Georgia: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention; 2019.

Michigan Behavioral Risk Factor Survey

The Michigan Behavioral Risk Factor Survey (BRFS) is an annual statewide telephone survey of Michigan adults aged 18 years and older that is conducted through a collaborative effort between the Centers for Disease Control and Prevention, Michigan State University, and the Michigan Department of Health and Human Services (MDHHS).



2016 Michigan BRFS: Sample Size



All of the 2016 BRFS results are weighted estimates representing prevalence among Michigan's adult population.

How prevalent were ACEs statewide?

In 2016, 2.7 million Michigan adults reported being verbally abused one or more times as a child.

Analysis by Public Sector Consultants based on weighted prevalence estimates among Michigan's adult population provided by the Michigan Department of Health and Human Services.

Source: Murad A. and O. Barth. 2016. *Michigan Behavioral Risk Factor Surveillance System Survey Data*. Lansing: Michigan Department of Health and Human Services, Lifecourse Epidemiology and Genomics Division.

Prevalence of Individual ACEs (2016)

2.7M

Michiganders (39 percent) were verbally abused as a child.

2.1M

Michiganders (29 percent) lived with someone with a substance abuse issue.

1.9M

Michiganders (27 percent) reported having parents who were separated or divorced.

1.4M

Michiganders (20 percent) lived with someone with mental illness.

Analysis by Public Sector Consultants based on weighted prevalence estimates among Michigan's adult population provided by the Michigan Department of Health and Human Services.

Prevalence of Individual ACEs (2016)

1.4M

Michiganders (19 percent) reported that adults in their household were physically violent to one another one or more times.

1.3M

Michiganders (18 percent) were physically abused one or more times as a child.

1.1M

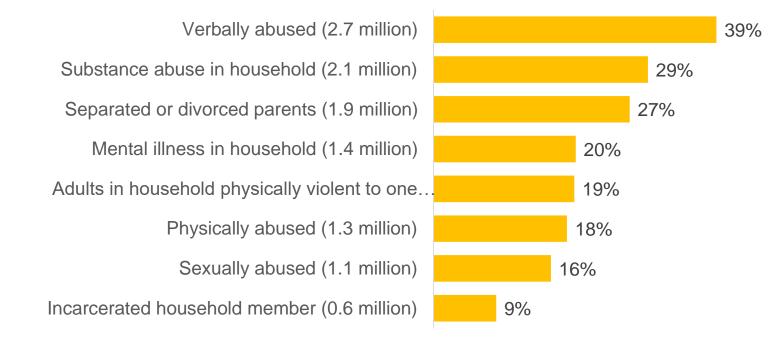
Michiganders (16 percent) were sexually abused one or more times as a child.

0.6M

Michiganders (9 percent) lived with someone who was incarcerated.

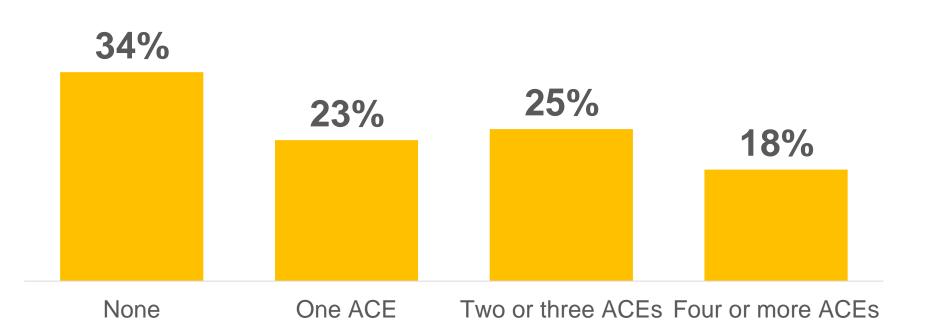
Analysis by Public Sector Consultants based on weighted prevalence estimates among Michigan's adult population provided by the Michigan Department of Health and Human Services.

Prevalence of Individual ACEs Among Michigan Adults (2016)



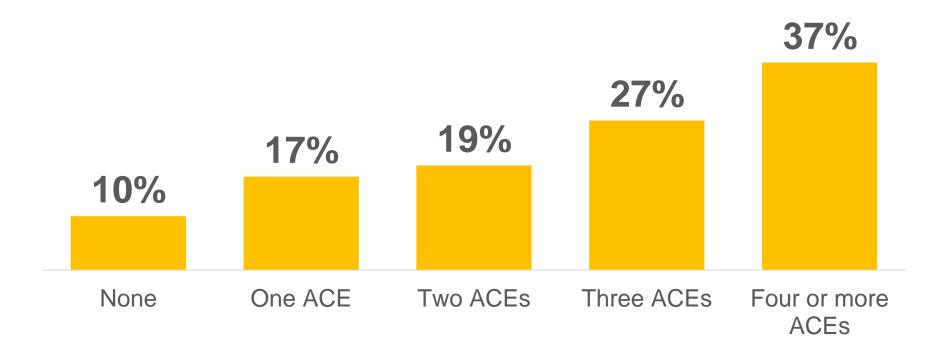
Analysis by Public Sector Consultants based on weighted prevalence estimates among Michigan's adult population provided by the Michigan Department of Health and Human Services.

ACEs Load Among Michigan's Adult Population (2016)



Analysis by Public Sector Consultants based on weighted prevalence estimates among Michigan's adult population provided by the Michigan Department of Health and Human Services.

Current Smoking by ACEs Load

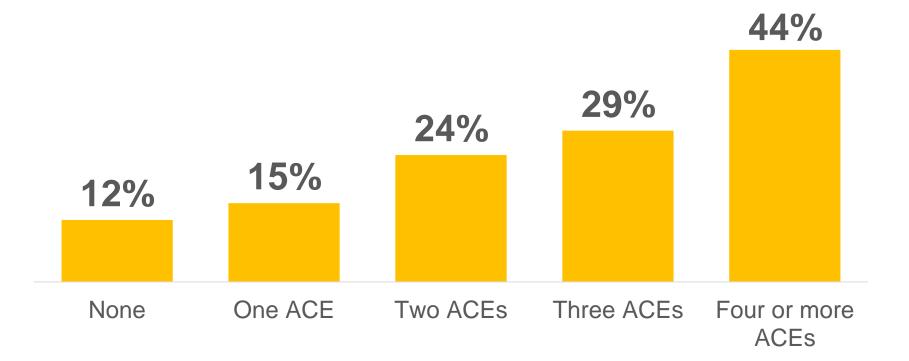


Analysis by Public Sector Consultants based on weighted prevalence estimates among Michigan's adult population provided by the Michigan Department of Health and Human Services.

In 2016, 44 percent of Michigan adults with four or more ACEs had been diagnosed with depression, compared to only 12 percent of Michigan adults with no ACEs.

Analysis by Public Sector Consultants based on weighted prevalence estimates among Michigan's adult population provided by the Michigan Department of Health and Human Services.

Diagnosed Depression by ACEs Load



Analysis by Public Sector Consultants based on weighted prevalence estimates among Michigan's adult population provided by the Michigan Department of Health and Human Services.

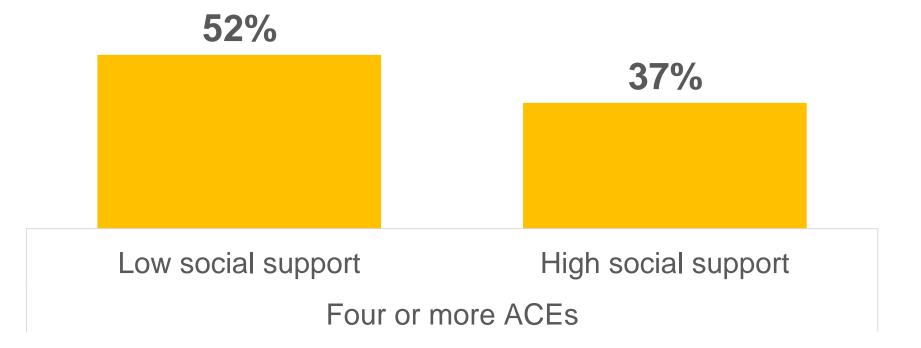
Health Outcomes Most Closely Associated with ACEs

Condition	Pearson Chi-square*	Risk of Condition**	95% Confidence Interval
Diagnosed depression	Significant (<0.01)	2.41	2.40 to 2.42
Chronic obstructive pulmonary disease (COPD)	Significant (<0.01)	1.83	1.82 to 1.84
Poor mental health more than half of last month	Significant (<0.01)	1.82	1.81 to 1.82
Ever told asthma	Significant (<0.01)	1.69	1.68 to 1.69
General health status (poor)	Significant (<0.01)	1.64	1.64 to 1.65
Current asthma	Significant (<0.01)	1.57	1.56 to 1.58
Poor physical health more than half of last month	Significant (<0.01)	1.31	1.30 to 1.31
Cancer	Significant (<0.01)	1.06	1.06 to 1.07
Cardiovascular disease	Significant (<0.01)	1.03	1.03 to 1.03
Arthritis	Significant (<0.01)	1.00	1.00 to 1.01
Diabetes	Significant (<0.01)	0.98	0.98 to 0.99
Stroke	Significant (<0.01)	0.91	0.90 to 0.92
Coronary heart disease	Significant (<0.01)	0.85	0.84 to 0.85
Heart attack	Significant (<0.01)	0.72	0.71 to 0.72

*Alpha level set at 0.05 prior to analysis **The prevalence of the condition among those with one or more ACE compared to the prevalence among those with zero ACEs.

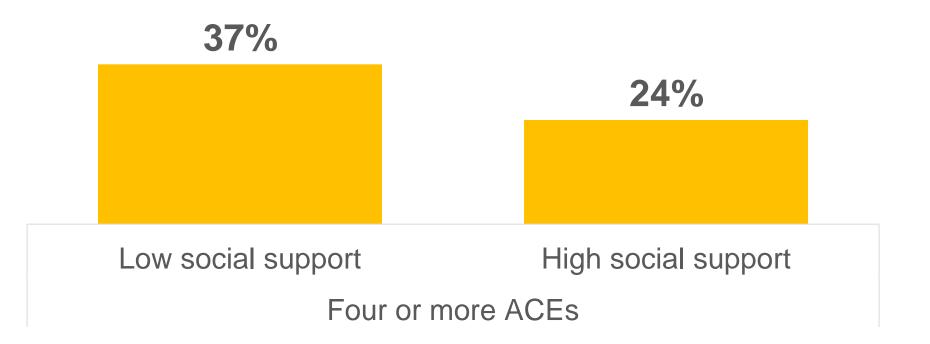
Analysis by Public Sector Consultants based on weighted prevalence estimates among Michigan's adult population provided by the Michigan Department of Health and Human Services.

Diagnosed Depression and Social Support



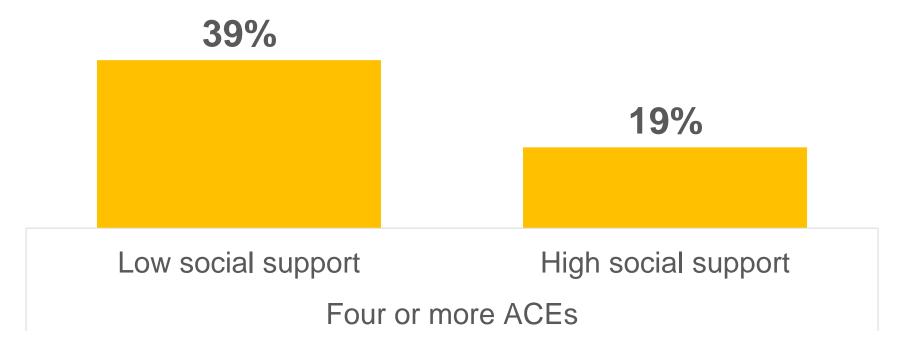
Analysis by Public Sector Consultants based on weighted prevalence estimates among Michigan's adult population provided by the Michigan Department of Health and Human Services.

Fair or Poor Overall Health and Social Support



Analysis by Public Sector Consultants based on weighted prevalence estimates among Michigan's adult population provided by the Michigan Department of Health and Human Services.

Poor Physical Health and Social Support



Analysis by Public Sector Consultants based on weighted prevalence estimates among Michigan's adult population provided by the Michigan Department of Health and Human Services.

Respondents with high social support exhibited a 7 to 29 percent lower prevalence of negative health outcomes than respondents with low social support, depending on health outcome and ACEs load.

Analysis by Public Sector Consultants based on weighted prevalence estimates among Michigan's adult population provided by the Michigan Department of Health and Human Services.

Felt that you belong at your high school

Felt supported by your friends

Two adults took a genuine interest in you

Able to talk with your family about your feelings Enjoyed participating in community traditions

Family stood up for you in difficult times

ADVERSE CHILDHOOD EXPERIENCES

AMONG MICHIGAN ADULTS (2016)

What Are Adverse Childhood Experiences and How Prevalent Are They?

The Centers for Disase Control and Prevention defines adverse childhood experimences (ACL) as "all types of abuse, neglect, and other potentially traumatic experiences that occur to people under the age of 18." In Michigan, eight peofic ACEs are excluded through an annual state-level telephone survey of adults froom as the Behavioral Risk Factor Survey. In 2016, tou-thiold Richigan adults (K63) reported having one or more ACEs.



2.1M

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1.4M

household.

1.3M

adults (20%) reported

mental illness in their

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one or more time

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2.7M

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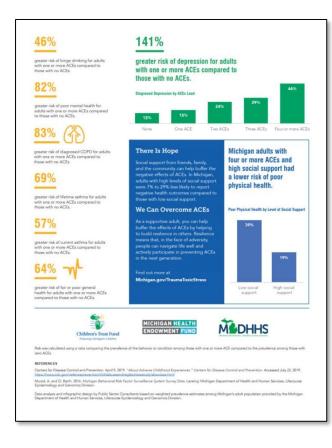
having separated or divorced parents.

adults (39%) reported

being verbally abused one or more times as

Deritations and experimining poole health outcomes in 2016, nearly a quarter of Michigan adults reported experimening at least one ACEs quarter reported experiencing two to three ACEs, and nearly one in five experiencing of unearly one in five experiencing at nearly one in five





Analysis and graphic design by Public Sector Consultants based on weighted prevalence estimates among Michigan's adult population provided by the Michigan Department of Health and Human Services.

Train the Trainer

- Fidelity to the Science
- Common Language
- Common Meaning
- Tailored to Audience
- Widely Tested
- Delivers Understanding, Compassion, Motivation to Act





Michigan ACE Initiative Master Trainers Grassroots Observations

- *Nicki Britton*, Health Officer and Director of the Berrien County Health Department and Kresge Foundation Emerging Leader in Public Health
- Joe Thomas, Field Service/Juvenile Drug Treatment Court Manager with the 9th Circuit Court Family Division and Manager of the Field Service Department
- J. Thomas Munley, Coordinator- Mid-Michigan Trauma Collaborative, Child and Family Charities

CASA: Court Appointed Special Advocate



Fostering STARS



Fostering STAR



Certificate: Childhood Trauma and Treatment + Documentary "Resilience" = Awakening!

Resilience

66

NO MATTER HOW OLD YOU ARE — OR HOW OLD YOUR CHILD MAY BE, THERE ARE SCIENTIFICALLY SUPPORTED AND RELATIVELY SIMPLE STEPS THAT YOU CAN TAKE TO REBOOT THE BRAIN, CREATE NEW PATHWAYS THAT PROMOTE HEALING, AND COME BACK TO WHO IT IS YOU WERE MEANT TO BE.

- DONNA JACKSON NAKAZAWA



Steps to Healing

- One healthy adult /regular contact with child
- Before you can regulate emotions, you must know what they are!
- Teach Emotion Intelligence (adults and youth)

Be able to name emotions and the why?

Learn the triggers that set the child off. Know yours!

Smells, sounds, similar look to abuser

Remove SHAME! It wasn't the child's fault

What More Can We Do?

Adopt a Public Health approach to Child Maltreatment and other ACEs by:

- 1. Screening for ACEs in systems that serve children and families.
- 2. Building capacity to prevent & treat child trauma.
- Increasing access to trauma-informed services for children & families.
- Integrating and enhancing programs to target synergistic ACEs with highest cumulative risks.
- 5. Integrating trauma services across family-serving systems.

Resource URLs

ACES

- TED Talk www.ted.com/talks/nadine_burke_harris_how_childhood_trauma_affects_health_across_a_lifetime
- CDC <u>www.cdc.gov/violenceprevention/acestudy/index.html</u>
- Academy on Violence and Abuse <u>www.avahealth.org/aces_best_practices/</u>

Evidence Based Treatment & Prevention

- NCTSN <u>www.nctsn.org</u>
- ISTSS <u>https://www.istss.org/</u>
- Children's Bureau http://www.acf.hhs.gov/programs/cb
- SAMHSA <u>http://www.samhsa.gov/ebp-web-guide</u>
- Maternal Depression http://www.movingbeyonddepression.org/

Advocacy & Policy

- AAP <u>www.aap.org/en-us/Pages/Default.aspx</u>
- APAs <u>www.apa.org</u> & <u>www.psychiatry.org</u>
- AACAP <u>www.aacap.org</u>

1/21/2020

Additional Resource URLs: CANarratives.org

CANarratives.org



Quick Reference for Questions or more information

Website: Facebook: YouTube: <u>Mlace.org</u> <u>www.facebook.com/MichiganACE</u> <u>https://www.youtube.com/channel/UC7h4KhtA.gPa6JyElRb2UofQ</u>

Rick Murdock, Michigan Ace Initiative Coordinator

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