From Adversity to Resilience: Unpacking the Impact of Childhood Experiences on Youth Mental Health

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ARIZONA DEPARTMENT

OF HEALTH SERVICES

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Introduction

Bin Suh, PhD, RN

Senior Epidemiologist and Arizona Youth Risk Behavior Survey Coordinator who is overseeing the overall survey administration and dissemination of and the Positive and Adverse Childhood Experiences (PACEs) surveillance.

Rebekah Kamer

Adolescent Health Epidemiologist who monitors the health of Arizona adolescents.









S Risk and Protective Factors



Mental Health Landscape

of Arizona Adolescents







Youth Risk

Behavior Survey

About the Youth Risk Behavior Survey

- Biennial population-based survey of high school students in grades 9-12 in Arizona
- Conducted in partnership with the Centers for Disease Control and Prevention
- 1,181 AZ adolescents participated in the 2021 cycle • 2021 AZ YRBS student response rate: 79%, School response rate:
- 58%, Overall response rate: 46%







About the Youth Risk Behavior Survey

- The survey collects valuable information about priority health behaviors and experiences among Arizona teens.
- These health behaviors include:
 - Dietary behaviors
 - Physical activity behaviors
 - Tobacco and electronic vape product use Ο
 - Alcohol and other drug use
 - Sexual behaviors related to unintended pregnancy and sexually transmitted infections including HIV
 - Behaviors that contribute to unintentional injuries and violence
 - Adverse Childhood Experiences (ACEs)
 - Positive Childhood Experiences (PCEs)







Supplementary Data Sources

- 2021–2022 National Survey of Children's Health • Parents/guardians.
 - National survey conducted annually, funded and directed by the Health Ο Resources and Services Administration's Maternal and Child Health Bureau (HRSA MCHB), that provides rich data on multiple, intersecting aspects of children's health and well-being – including physical and mental health, access to and quality of health care, and the child's family, neighborhood, school, and social context.





Importance of Addressing Youth Mental Health



 Early experiences and environments significantly shape a person's emotional and psychological well-being throughout their life (Bomysoad & Francis, 2020)

- disorders (Mulraney et al. 2021)
- Francis, 2020)

Bomysoad, R. N., & Francis, L. A. (2020). Adverse childhood experiences and mental health conditions among adolescents. Journal of Adolescent Health, 67(6), 868-870. Mulraney, M., Coghill, D., Bishop, C., Mehmed, Y., Sciberras, E., Sawyer, M., ... & Hiscock, H. (2021). A systematic review of the persistence of childhood mental health problems into adulthood Neuroscience & Biobehavioral Reviews, 129, 182-205.

Mental disorders usually start early with one-third beginning before age 14, nearly half by age 18, and the majority before age 25, with an average onset around 14.5 to 18 years old for all

• Youth with exposure to **childhood adversity** are at

a higher risk of mental health problems (Bomysoad &



Mental Health

Landscape of Arizona Youth

In a classroom with 30 high school students...

harmed themselves at least once last year

thought about attempting suicide last year

6 had plans about attempting suicide last year

3 attempted suicide last year

Rates of adolescents reporting **suicidal thoughts and plans**, as well as **self-harm increased** in the past years. (%)







- Suicide consideration: Increased by 22%
- Suicide plans: Increased by 35%
- Self-harm: Increased by 33%

 Suicide attempts: Decreased by 8%

Female and LGBQ+ adolescents are more likely to report suicide consideration and self-harm. (%)





Suicide Deaths Among Arizona Adolescents

Mortality Rate per 100,000 Children due to Suicide by Sex, Ages 10-17 Years, Arizona, 2012-2021



Suicide Deaths Among Arizona Adolescents







Based on the 29th Arizona Child fatality Review Report

Percentage of Suicide Deaths among Children by Age Group, Ages 10-17 Years, Arizona, 2021 (n=44)

Suicide Deaths Among Arizona Adolescents

Percentage of Suicide Deaths among Children by Race/Ethnicity, Ages 10-17 Years, Compared to Population, Arizona, 2021 (n=44)*



*Data for Black and Asian children suppressed due to counts less than 6. Based on the 29th Arizona Child fatality Review Report





White

Almost 4 in 10 Arizona adolescents report poor mental health.





of adolescents report poor mental health during the COVID-19 pandemic





36%

of adolescents report poor mental health in the past 30 days

Female and LGBQ+ adolescents are more likely to report poor mental health.



report poor mental health in the past 30 days



report poor mental health in the past 30 days

Lifetime diagnoses of **Anxiety**, **Depression**, and **ADHD** among Arizona youth **increase with age**.



* Data was suppressed due to counts less than 6.





More females than males are diagnosed with anxiety and depression among children, ages 0-17.

The opposite is true for behavioral conduct problems and ADHD.





Prevalence of mental health diagnoses among Arizona children, ages 0-17 years, by race/ethnicity





Prevalence of mental health diagnoses among Arizona children, ages 0-17 years, by household education



* Data was suppressed due to counts less than 6.



In a classroom with 30 high school students...

24 are trying to control their weight (lose, gain, or stay the same)

4 are trying to lose weight

heterosexual peers to desire weight loss.







58% of LGBQ+ adolescents & 42% of heterosexual adolescents report the desire to lose weight.

teens who are trying to lose weight teer

are engaging in unhealthy weight control behaviors

i.e., to lose or keep from gaining weight include going without eating for 24 hours or more; taking any diet pills, powders, or liquids; vomiting or taking laxatives; smoking cigarettes; or skipping meals.





teens who are trying to stay the same weight

Association between **poor mental health** and **unhealthy weight** control behaviors





engaged in unhealthy weight control behaviors

In a classroom with 30 high school students...

3 first tried cigarette smoking before age 13

12 have ever used an electronic vaping product (EVP)

5 are currently using an EVP

Female and LGBQ+ adolescents are more likely to have ever used an EVP.



46% of female adolescents
&51% of LGBQ+ adolescents
&34% of male adolescents
report they have ever used an EVP.37% of heterosexual adolescents
report they have ever used an EVP.





52%

of adolescents currently using an EVP get EVPs from their friends and family





1 in 2

adolescents who currently use an EVP are trying to quit

Association between **poor mental health** and **EVP use**





ever used an EVP

Flourishing is an important indicator that represents an optimal state of well-being and functionality.

Flourishing items for 0-5 year olds

- 1. Is affectionate and tender with parent;
- 2. Bounces back quickly when things don't go their way;
- 3. Shows interest and curiosity in learning new things;
- 4. smiles and laughs.

Flourishing items for 6-17 year olds

- starts;



1. Shows interest and curiosity in learning new things;

2. Works to finish tasks he or she

3. Stays calm and in control when faced with a challenge.

4 in 5 children, ages 0–5, met all four criteria for flourishing, and **6 in 10** children, ages 6–17, met all three criteria for flourishing.





1 in 5 students missed 4 or more days of school due to illness or injury.

Female students are nearly 20% more likely to miss 4+ days of school due to illness or injury.



2022 National Survey of Children's Health 2021 Youth Risk Behavior Survey

Adolescents who reported **poor mental health** are **more likely to miss school** due to illness or injury more than 4 days in the past year (%).



Adolescents with Special Health Care Needs (SHCN) miss schools due to illness or injury more often than those without SHCN (%).

In the past 12 months ...



Chronic absenteeism increases when children and adolescents experience poor mental health

Anxiety Depression	n ADHD Behavioral Conduct Disorder
12-17	
Does not Have Condition	31.9%
	31.7%
	32.5%
	32.8%
Currently Has Condition	49.1%
	57.1%
	52.3%
	56.8%
6-11	
Does not Have Condition	28.8%
	30.3%
	28.9%
	29.6%
Currently Has Condition	46.3%
	44.4%
	45.7%
	45.3%

*Some data suppressed for Children regarding depression diagnosis

Adolescents (12-17 years old)

Absenteeism is higher among those who have

- Anxiety by **42.5%**
- Depression by **57.2%**
- ADHD by **46.7%**
- Behavioral Conduct Disorder by **53.6%**

Children (6-11 years old)

Absenteeism is higher among those who have

- Anxiety by **46.6%**
- Depression by **37.8**
- ADHD by **45%**
- Behavioral Conduct Disorder by **41.9%**

Chronic Absenteeism is more prevalent in children and adolescents who are **not flourishing**




Risk and Protective

for Youth Mental Health

Factors

Adverse Childhood Experiences (ACEs)

are "potentially traumatic events that occur from 0 to 17 years of age," according to the Centers for Disease Control and Prevention.



Ellis, W., Dietz, W. (2017) A New Framework for Addressing Adverse Childhood and Community Experiences: The Building Community Resilience (BCR) Model. Academic Pediatrics. 17 (2017) pp. S86-S93. DOI information: 10.1016/j.acap.2016.12.011



Centers for Disease Control and Prevention. (2021). Adverse Childhood Experiences (ACEs). Vital Signs. Retrieved February 13, 2023, from https://www.cdc.gov/vitalsigns/aces/index.html#:~:text=ACEs%20can%20include%20violence%2C%20abuse,and%20substance%20misuse%20in%20adulthood.

- Mental Illness
 - Incarceration
 - Homelessness
 - **Physical &** Emotional Neglect
 - Discrimination

Compared to those with no ACEs, a person with **4 or more ACEs is** ...

37.5 times more likely to attempt **suicide** 4. times more likely to have depression **3.** times more likely to have **anxiety**

Hughes, K., Bellis, M. A., Hardcastle, K. A., Sethi, D., Butchart, A., Mikton, C., ... & Dunne, M. P. (2017). The effect of multiple adverse childhood experiences on health: a systematic review and meta-analysis. Lancet Public Health, 2(8), e356-e366.



Compared to those with no ACEs, a person with 4 or more ACEs is ... 10.2 times more likely to deal with problematic drug use 6.9 times more likely to abuse **alcohol** 1.5 times more likely to become a **victim of violence** times more likely to become a **violent perpetrator**

Hughes, K., Bellis, M. A., Hardcastle, K. A., Sethi, D., Butchart, A., Mikton, C., ... & Dunne, M. P. (2017). The effect of multiple adverse childhood experiences on health: a systematic review and meta-analysis. Lancet Public Health, 2(8), e356-e366.







ACEs are prevalent among Arizona adolescents, according to both parent and youth reported data.







2021 Youth Risk Behavior Survey & 2020-2021 National Survey of Children's Health

YRBS (Youth Reported)





2021 Youth Risk Behavior Survey & 2021-2022 National Survey of Children's Health

ACEs begin to affect children from a very young age.

1 in 4 children, ages 0-5, have at least 1 ACE.





Flourishing is less common among those who have ACEs.







Absenteeism is more common in groups with ACEs, and the opposite is true for school engagement (12-17 years).

DHS



There are strong associations between ACEs and mental health diagnoses of children and adolescents (0-17 years).





Compared to those with no ACEs, adolescents with **4 or more ACEs** in Arizona experience more mental health issues*

6.4 times more likely to report **poor mental health during the COVID-19 pandemic**

8.6 times more likely to report **poor mental health in the past 30 days**

18.2 times more likely to report suicide considerations in the past 12 months

Based on the 2021 Arizona Youth Risk Behavior Survey data; *after accounting for age, sex, and race/ethnicity

Positive Childhood Experiences (PCEs)

are experiences during childhood that promote safe, stable, and nurturing relationships and environments (Anderson, 2022)



and working together on solutions by drawing on strengths and remaining hopeful during difficult times.

CONSTRUCTS

POSITIVE CHILDHOOD PERIENCES CATEGORIES

EXPERIENCES

neighborhood where he or she is safe.

Opportunities for positive social engagement

After school activity

The child participates in a sports team, clubs, or other organizations; or takes sports, music, art, language, or other organized lessons or activities after school or on the weekends during the last 12 months.

Community service

The child participates in any type of community service or volunteer work at school, place of worship, or in the community during the last12 months.

Figure 1. Summary of the Social Constructs used to develop the Positive Childhood Experiences (PCEs) Categories with Definitions Derived from the National Survey of Children's Health Questions.



Anderson, K. (2022). CDC's Perspective on Generating and Updating the Definitions and Measures of ACEs and PCEs: Work for A New Generation of Equitable Research & Practice Crouch, E., Radcliff, E., Merrell, M. A., Brown, M. J., Ingram, L. A., & Probst, J. (2021). Racial/ethnic differences in positive childhood experiences across a national sample. Child Abuse & Neglect, 115, 105012.

Developing social and emotional competencies

Shared ideas

The child is able to share ideas and talk about things that really matter.

Importance of Positive Childhood Experiences (PCEs)

- **Better mental health outcomes**, such as reduced depression, anxiety, and PTSD symptoms (Han et al., 2023)
- Protective against the negative impacts of adversity, although they may not completely eliminate associated risks (Bettell et al., 2019; Han et al., 2023)
- Better School Outcomes (Bettell et al., 2019; Han et al., 2023)



Han, D., Dieujuste, N., Doom, J. R., & Narayan, A. J. (2023). A systematic review of positive childhood experiences and adult outcomes: Promotive and protective processes for resilience in the context of childhood adversity. Child abuse & neglect, 144, 106346.

Bethell, C., Jones, J., Gombojav, N., Linkenbach, J., & Sege, R. (2019). Positive childhood experiences and adult mental and relational health in a statewide sample: Associations across adverse childhood experiences levels. JAMA Pediatrics, 173(11), e193007-e193007.



What Parents Say





What Youth Say





Females, LGBQ+, and ethnic minority adolescents are less likely to have these support systems.



2021 Youth Risk Behavior Survey

Having a caring adult to share feelings with can decrease*





2021 Youth Risk Behavior Survey

*Logistic regression models accounted for sex, race/ethnicity, and ACEs

Having a friend to share feelings with can decrease*





2021 Youth Risk Behavior Survey

*Logistic regression models accounted for sex, race/ethnicity, and ACEs

Selfharm

Feel connected to people at school can decrease*





2021 Youth Risk Behavior Survey

*Logistic regression models accounted for sex, race/ethnicity, and ACEs



Selfharm Healthcare Access for Mental Health



28% of Arizona adolescents had one or more preventive medical care visits in the past year.



of Arizona adolescents had adequate insurance and was continuously insured in the past year.



of Arizona adolescents always have adequate insurance coverage for mental/behavioral health care.



of Arizona adolescents received needed treatment or counseling from a mental health professional in the past year.



Type of Health Insurance

Public health insurance only		31.
Private health insurance only		
Public and private insurance	5.2%	
Uninsured	8.9%	



54.8%

Children with Special Health Care Needs by Insurance Type

CSHCN Non-CSHCN

Public only (government assistance)26.8%Private only (privately purchased, including
through ACA marketplace, through
employer, or TRICARE)26.2%Private and public64.8%Not insured



Insurance Type and Adequacy

Current insurance is adequate Current insurance is not adequate			
	Current insurance is adequate		
Public and private insurance	55.4%		
Private health insurance only	64.4%		
Public health insurance only	83.4%		

Current insurance is not adequate

44.6% 35.6% 16.6%

Difficulties obtaining mental health care among those who received or needed care during the past 12 months

Received or needed mental health care and did not have difficulty getting it	
Received or needed mental health care but it was somewhat difficult to get it	
Received or needed mental health care but it was very difficult to get it	16.0%
It was not possible to obtain care	6.0%







ADHS' Resources for Youth Mental Health

Recommendations for schools

Enhance support structures

- Continue and increase initiatives that cultivate positive relationships within school environment
- Continue promoting anti-bullying programs and activities Ο
- Promote after-school engagement
- Collaborate with school nurses and local health departments in addressing mental health trends and ensuring students have access to resources



Recommendations for schools

- Train school staff in Youth Mental Health First Aid to support students with mental health challenges.
- Enhance communication with parents and caregivers to maintain strong relationships.
- Create mentorship opportunities for staff and trusted adults to guide students.



ADHS' ACEs Action Plans

#1 Enhance Surveillance and Data Visualization on ACEs and PCEs

#2 Enhance Provider Awareness of ACEs and PCEs

#3 Make ADHS a Trauma-Informed Care Agency









2021 Arizona Youth Risk Behavior Survey

Positive Impact of Supportive Relationships on Teen Mental Health

Nearly half of Arizona teens in 9-12th grade are experiencing poor mental health. Teen rates of selfharm and thoughts of suicide, plans and attempts are alarming. Rates increase for female and LGBQ+ teens* and those experiencing adverse childhood experiences (ACEs), being bullied or bullying others. Supportive relationships with caring adults, friends, and people at school reduce teens' risk.







Teen Weight Control: Connections to Unhealthy Weight Control Behaviors and Poor Mental Health

The majority of Arizona teens in grades 9-12 are trying to control their weight and nearly half are trying to lose weight. Teens that are trying to lose weight are most likely to engage in unhealthy behaviors to control their weight like not eating for 24+ hours, vomiting, and taking diet pills. Female and LGBQ+ teens* are most affected. Teens experiencing childhood adversity, poor mental health (stress, anxiety, depression), and thoughts about suicide are more likely to engage in these behaviors.



Most teens (80% of female teens and 83% of male teens) are trying to control their weight (lose, gain, or stay the same).



Trying to lose weight Trying to stay same weight Trying to gain weight Not trying to do anything





Trying to lose weight Trying to stay same weight Trying to gain weight Not trying to do anything



azdhs.gov/yrbs





ADHS

Arizona Positive & Adverse Childhood Experiences (PACEs) Surveillance

Last updated on 6/26/23





azdhs.gov/aces



ADVERSE CHILDHOOD **EXPERIENCES IN ARIZONA**

A reporting brief using data from the US National Survey for Children's Health







POSITIVE CHILDHOOD

A reporting brief using data from the U.S. National Survey for Children's Health







EXPERIENCES IN ARIZONA

September 2022









ACEs and Interpersonal Support Infographic







Positive Childhood Experiences Among Children in Arizona

? What are <u>Positive Childhood Experiences</u> (PCEs)?

PCEs are known as "experiences in childhood that build a child's sense of belongingness and connection," according to <u>PCAAZ</u>. <u>Positive experiences and supportive relationships</u> with adults are related to better school performance and health in both childhood and adulthood.

What are Adverse Childhood Experiences (ACEs)?

Report

Adverse Childhood Experiences (ACEs) are <u>potentially traumatic events</u> that occur before the age of 18 years, such as physical/emotional abuse and neglect, and household dysfunctions and are linked with a variety of health problems. Exposure to multiple ACEs are linked with various health problems and a shorter life expectency.

About 43% of Children in Arizona have one or more ACE.



Research shows that PCEs are protective against ACEs by promoting child resilience Children with resilience—including those who had been exposed to 4 or more ACEs had better school and health outcomes.

Supportive relationships and environment can also lead to **positive adult functioning** and **better physical and mental health outcomes** regardless of socioeconomic status and race/ethnicity.

PCEs Infographic



Supportive Relationships Mitigate the Effect of Cumulative Exposure to Adverse Childhood Experiences on Depression, Anxiety, Stress, and Suicide Considerations—The Arizona Youth Risk Behavior Survey

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Abstract

Declining adolescent mental health is a significant public health concern during the COVID-19 pandemic. Social distancing and stay-at-home orders have led to missed social connections with peers and adults outside households, and this has increased the risk of mental health problems in children and adolescents, particularly those with adverse childhood experiences (ACEs). Studies have shown that strong interpersonal support improves adolescent mental health. We examined the association between ACEs and poor mental health (including stress, anxiety, and depression) and how the presence of interpersonal support from caring adults and friends and school connectedness can mitigate this relationship among adolescents in Arizona. This study analyzed data from the 2021 Arizona Youth Risk Behavior Survey (YRBS; *n* = 1181), a population-based survey conducted biennially across the United States.





https://www.mdpi.com/2227-9067/11/2/161

Youth Mental Health:

Youth Mental Health First Aid:

YMHFA is a training conducted throughout the state by County Health & private Health Educators that prepares youth-serving individuals to recognize signs of mental illness and direct youth to proper care strategies. Practice an effective approach to building stronger relationships with youth, helping them to build resilience and positive coping strategies. This training can be completed in a one to two days and is valuable for any school staff.

Please contact Mariusz Bista for more information. Email: <u>Mariusz.bista@azdhs.gov</u>







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Youth Mental Health:

Youth Stigma Reduction Website:

This website hosted by ADHS targeted to youth and schools provides answers to commonly asked questions concerning mental health struggles, links to therapist and further help directories, and LGBTQ+ resources. This website will be updated in the following year to include a greater amount of initiative information, toolkits, and relevant resources.









Youth Mental Health:

Youth Community Resources Website:

This website designed for use by youth, families, and youth-serving individuals shares links & contact information for a variety of resources organized by county and topic including suicide prevention, physical health, mental health, homelessness, nutrition, etc. This website is also undergoing updates and should be re-formatted by mid-summer to include a search bar function.









Youth Positive Development:

Youth Councils:

This initiative aims to establish and strengthen Youth Councils statewide, focusing on critical public health issues affecting adolescents, such as suicide prevention, bullying prevention, healthy relationships, well visits, injury prevention, and dental care. These councils will serve as platforms for young leaders to drive innovative solutions to these challenges. By fostering positive experiences, relationships, and environments, the program empowers youth to take initiative and address the pressing health issues they encounter daily. Through active engagement, members will contribute valuable insights to state-level projects and have the opportunity to participate in the development of the biennial Adolescent Health Conference, further amplifying their voices in shaping policies and practices. Youth Councils will also concentrate their efforts on addressing these critical topics within their local communities. By fostering grassroots engagement, they will work closely with community leaders and organizations to implement targeted strategies that address the unique challenges faced by adolescents in their respective areas. This localized approach ensures that interventions are tailored to the specific needs and circumstances of each community, maximizing impact and promoting sustainable change at the grassroots level.

For more information, please email Jess Lopez.

Email: <u>Jessica.Lopez@azdhs.gov</u>



Youth Positive Development:

ADHS TOP PYD Pilot

The ADHS Teen Outreach Program® (TOP) Positive Youth Development Pilot Project provides an opportunity for State Lottery Abstinence and Abstinence Plus Contractors to implement Wyman Teen Outreach Program® lessons with a strong focus on Positive Youth Development (PYD). This pilot project excludes any sexual health-related lessons, such as those on abstinence, contraception, body development, sexuality, and sexually transmitted infections (STIs)

While the Arizona Department of Health Services' Teen Pregnancy Prevention Program has traditionally included sexual health topics to comply with federal guidelines, the lottery-funded programs operate without these constraints. Leveraging existing evidence supporting TOP®'s efficacy in reducing risky behaviors, the Adolescent Health Team allowed the delivery of TOP® programming without sexual health lessons, specifically for contractors funded through state lottery dollars. Notably, contractors who are TOP certified facilitators played a pivotal role in selecting the 12 lessons that will center on positive youth development principles.



Youth Positive Development:

TOP Pilot Program Continued:

According to the Office of Population Affairs evaluation report on effective behavior-changing programs highlights TOP®'s robust outcomes. Rigorous research indicates that TOP® leads to a decreased likelihood of pregnancy, risky sexual behavior, course failure, school suspension, and school absenteeism (Allen and Philliber, 2001). Furthermore, the success of the Teen Outreach Program® in Arizona is evident. In the last full implementation year before the pandemic:

- 91% of participating teens reported being capable of making decisions to maintain their health and safety.
- 84% of teens experienced a sense of belonging during their program involvement.
- 89% of teens expressed that community service learning initiatives enabled them to make positive contributions to others' lives.
- 92% of teens felt cared for by their facilitators.

This evidence underscores the effectiveness of TOP® in fostering positive youth outcomes, supporting the rationale behind the TOP® Pilot Project's tailored approach.

For more information, please contact Jess Lopez

Email: <u>Jessica.Lopez@azdhs.gov</u>



Suicide Prevention and Bullying Resources:

ADHS' Suicide Prevention Homepage:

This homepage is equipped with the Suicide Prevention program's information, AZ Suicide Reports, Action Plans, as well as Local and National Resources.

For more information, please email:

Joshua.stegemeyer@azdhs.gov







Suicide Prevention and Bullying Resources:

<u>MustStopBullying.Org</u> :

The MustStopBullying.Org is an Anti-Bullying Campaign by ADHS that offers a resource to Parents, Students, and Schools that helps define bullying, action steps to approach individuals perpetuating bullying, and next action steps.









THANK YOU

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ACEs website: azdhs.gov/ACES YRBS website: azdhs.gov/YRBS