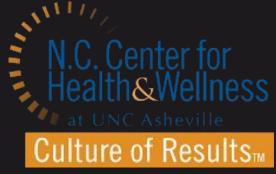
COMMUNICATING RESILIENCY ADVISORY GROUP MEETING

Kenneth Roche, CWP, Public Health Intern (MAHEC & NCCHW) Emma Olson, LMSW, MPH Interim Director of Partnerships and Evaluation North Carolina Center for Health and Wellness



Purpose of the Project

To create a targeted public health communications campaign to raise awareness about trauma-- what it is, its impacts, and how to build resilience-- in Buncombe County and across Western North Carolina.

Desired Results for this Group

 The CR Advisory Group is comprised of community partners use their expertise and experience to guide the project in development and dissemination.

Desired Results for Today

 This meeting is to get your perspectives and input on what audiences might benefit most from messages related to trauma and resiliency and which messages might be most effective.

Agenda

- Welcome and Introductions
- Background on Adverse Childhood Experiences (ACEs)
- Data on ACEs in NC, WNC and BC
- Brief reflections and responses (space for processing)
- Results-based Accountability (RBA) Exercise to Prioritize Community Indicators and Strategies for Communicating Resilience
- Close and Next Steps

Welcome and Introductions

- Name, Role and Affiliation
- Safe to fail and safe to feel space

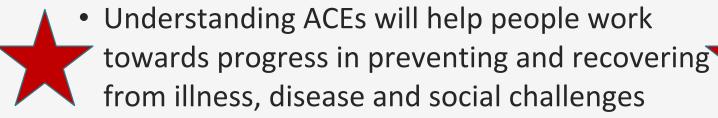
Our role:

- The North Carolina Center for Health and Wellness strives to impact policies, build capacity, and ignite community initiatives in order to support the health and wellbeing of North Carolinians across the state.
- NCCHW's Culture of Results is a training and technical assistance program that supports state-wide initiatives, as well as local public health departments, hospitals, clinics, and community providers to measure impact and improve results.

BACKGROUND ON ACES

ACEs study

- Assessed associations between childhood maltreatment and later-life health and well-being
- Certain experiences are major risk factors for the leading causes of illness, death, as well as poor quality of life in the United States
- Research has shown that many health and well being problems arise as a consequence of ACEs



ACEs study (cont.)

- Collaboration between the Centers for Disease Control and Prevention in Atlanta, Georgia and Kaiser Permanente's Health Appraisal Clinic in San Diego, California
- Study includes the 10 most common stressful childhood events experienced by the 17,000 participants in the Kaiser ACE Study
- These 10 stressful childhood events have been well studied in research literature

Types of Trauma

- Personal
 - Emotional abuse
 - Physical abuse
 - Sexual abuse
 - Emotional neglect
 - Physical neglect

- Household Challenges
 - Absence of a parent/caregiver though divorce,
 death or abandonment
 - A parent/caregiver who was treated violently
 - A household member who abused alcohol or drugs
 - A household member who was diagnosed with a mental illness
 - A household member who went to prison

Individual Responses to Trauma

- Alcohol Consumption/Abuse
- Aggression/Bullying
- Anxiety
- Poor Social Skills/Social Cueing
- Poor grades/Absenteeism
- Poor Mental Health/Depression/Suicide
- Sleep Disturbances/ Nightmares
- Smoking
- Sexual Activity
- Substance Use/Abuse
- Etc.

Higher ACEs score Increases Risk of:

BEHAVIOR /



Lack of physical activity



Smoking



Alcoholism



Drug use



Missed work

PHYSICAL & MENTAL HEALTH



Severe obesity



Diabetes



Depression



Suicide attempts



STDs



Heart disease



Cancer



Stroke

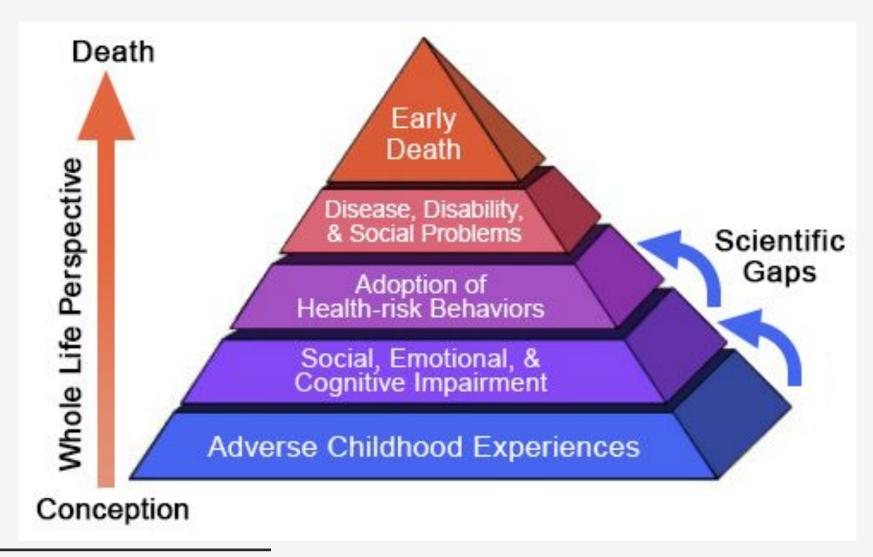


COPD



Broken bones

Why this is important



Resiliency is when the scale tips toward the good even when there are stressors or hard things



DATA ON ACES IN NC

2012 BEHAVIORAL RISK FACTOR SURVEILLANCE SYSTEM (BRFSS)

10,383 RESPONDENTS IN NC; 1,408 IN WNC; 348 IN BUNCOMBE COUNTY

Female Male Total

				18-34	946	706	1,652				
	Female	Male	Total	35-44	843	610	1,453	Education	Female	Male	Total
Participants	6,379	4,004	10,383	45-54	1,100	707	1,807	< H.S.	728	521	1,249
White	4,510	2,895	7,405	55-64	1,285	841	2,126	H.S./GED	1,836	644	2,480
African American	1,238	630	1,868	65-74	1,196	705	1,901	Post H.S.	1,828	436	2,264
Other	577	453	1,030	75+	936	420	1,356	College Grad.	1,970	530	2,500

ACE Data in North Carolina

Of respondents, 5.2% more females experienced 3-8 ACEs

Of respondents with high ACE scores, almost double are current smokers

Of respondents with 3-8 ACEs, 30% more were heavy drinkers

	No ACE	Low ACEs (1-2)	High ACEs (3-8)					
Gender	(Percentage indicates yes response to ACE occurrence)							
Female	41.7%	33.9%	24.4%					
Male	43.3%	37.5%	19.2%					
Current Smoker								
No	46%	35.5%	18.5%					
Yes	28%	36%	35.9%					
Heavy Drinker								
No	43%	35.7%	21.3%					
Yes	31.3%	35.5%	33.2%					

10.383 respondents

Comparing percentage of ACE numbers in Buncombe County, Western North Carolina, and the State

Of people who experienced 3-8 ACEs, the prevalence was 2.5% higher in Buncombe County compared to the State

Frequency of ACE Scores in:	No Ace	Low ACEs 1-2	High ACEs 3-8		
	(Percentage ind	icates yes response to ACE occurrence)			
Buncombe County	41.9%	33.6%	24.5%		
WNC	44.5%	34%	21.6%		
NC	42.4%	35.6%	22%		

1,408 respondents in WNC; 348 in Buncombe County

Comparing ACEs aurvey questions:

Questions:	BunCo	WNC	NC
1. Did you live with anyone who was depressed, mentally ill, or suicidal?	19.5%	16.6%	15.5%
2. Did you live with anyone who was a problem drinker or alcoholic?	25.4%	24.3%	23.4%
3. Did you live with anyone who used illegal street drugs or who abused prescription medications?	11.8%	9.8%	10.2%

- Note the theme of mental health and potential coping strategies
- Questions 1 and 2 show higher frequency of occurrence rates in WNC compared to the state
- Again, in Buncombe County there are significantly higher percentages across the board

Comparisons continued

4. How often did a parent or adult in your home ever swear at you, insult you, or put you down?

	Never	Once	Two or more
Buncombe County	64.9%	7 %	28.1%
WNC	71.4%	4.5%	24.1%
NC	71.1%	5.2%	23.7%

5. Living with an alcoholic OR drug abuser

	Yes	No
Buncombe County	29.4%	70.6%
WNC	27.2%	72.8%
NC	26.8%	73.2%

- High frequency of verbal and emotional abuse and multiple occurrences
- Living with someone who abuses alcohol or drugs occurs at a higher prevalence in Buncombe County compared to the State and WNC

The high rates of sexual misconduct in Buncombe County

6. Experienced sexual abuse?	Yes	No
Buncombe County	11.6%	88.4%
WNC	10.4%	89.6%
NC	10.8%	89.2%

7. How often did anyone at least 5 years older than you or an adult, ever touch you sexually?

	Never	Once	Two or more
Buncombe County	90.8%		7.8%
WNC	90.7%	2.8%	6.6%
NC	90.8%	3.1%	6.1%

8. How often did anyone at least 5 years older than you or an adult, try to make you touch them sexually?

	Never	Once	Two or more
Buncombe County	93.1%		7.4%
WNC	93.4%	1.8%	4.8%
NC	93.1%	2.3%	4.6%

Key ACE data in NC: Risk factors and outcomes

- NC females have experienced multiple (3-8) ACEs at higher rates than males (5.2%).
- People in NC with high ACE scores are twice as likely to be a current smoker and 10% more likely to engage in heavy drinking.
- In Buncombe County, people reported 2.5% more frequently to having an ACE score of 3+ compared to the the rest of the state.
- People in Buncombe County reported a 4% higher rate of living with someone with a mental health condition who was depressed, mentally ill, or suicidal— and higher rates of sexual abuse (1.2% higher than WNC).

$Buncombe \ County \ Infant \ Mortality \ Rates$

- Defined:
 - Infant mortality rate (IMR) is the number of deaths per 1,000 live births of children under one year of age.
- The IMR in Buncombe has increased from 5.4 in 2010 to 6.6 in 2015.¹
 - The IMR from 2010-2016 by race was 6 for white and 14 for black.^{1.5}

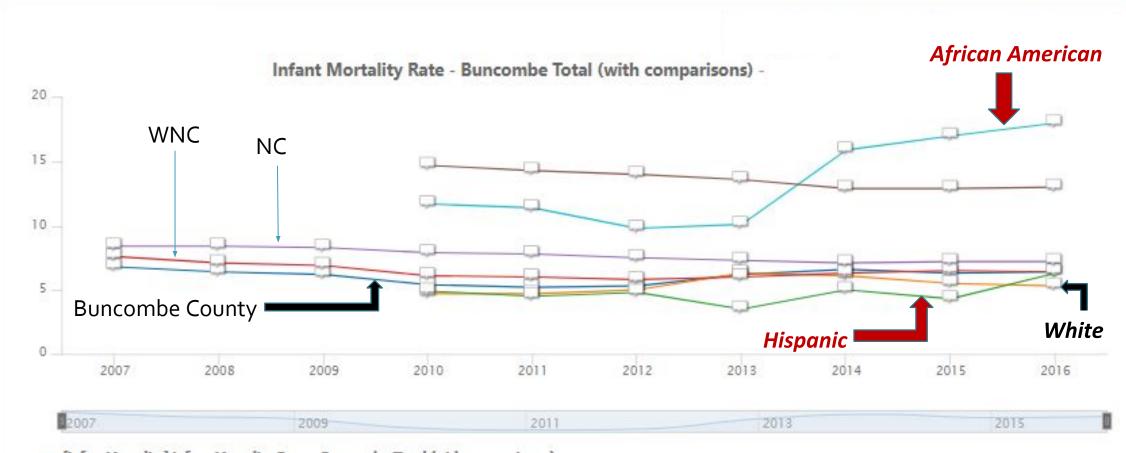
- According to the CDC, the NC infant mortality rate:
 - 7.1 in 2014
 - 7.3 in 2015
 - 7.2 in 2016



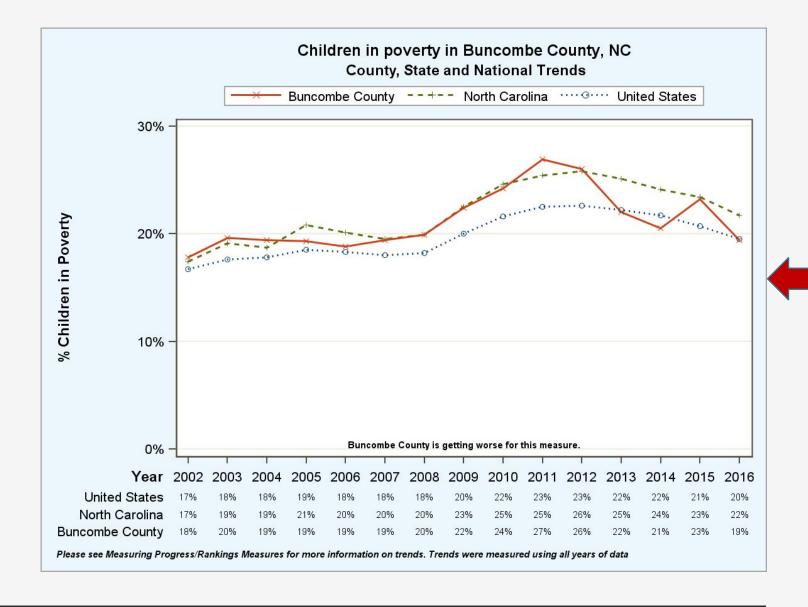
Infant Mortality Rate - Buncombe Total (with comparisons) @



InfantMortality Healthy Babies Annually | Lower is Better | Not Calculated



- [InfantMortality] Infant Mortality Rate Buncombe Total (with comparisons)
- -- [Comparison] Infant Mortality Rate (5 year) for Buncombe White Non-Hispanic
- --- [Comparison] Infant Mortality Rate (5 year) for Buncombe African American Non-Hispanic
- -O- [Comparison] Infant Mortality Rate (5 year) for Buncombe Hispanic [Comparison] Infant Mortality Rate (5 year) for Western NC Region Total
- -O- [Comparison] Infant Mortality Rate (5 year) for North Carolina Total
- -O- [Healthy Babies] Infant Mortality Rate (5 year) for North Carolina African American



Poverty and Single-Parent Households

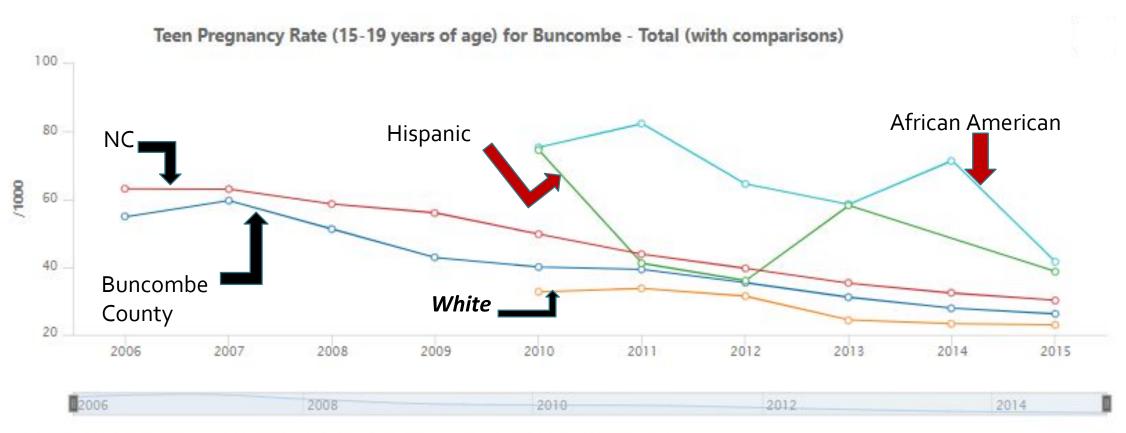
- Children (under 18) in Poverty:
- 26% in 2012; 21% in 2014; 19% in 2016
 - By race, 35% Black, 49%
 Hispanic, 15% White⁸
- 32% of children live in a single parent home (2012-2016)⁹
 2010-2014= 33%¹⁴



Teen Pregnancy Rate (15-19 years of age) for Buncombe - Total (with comparisons) @

Healthy Babies Annually | Lower is Better | Not Calculated

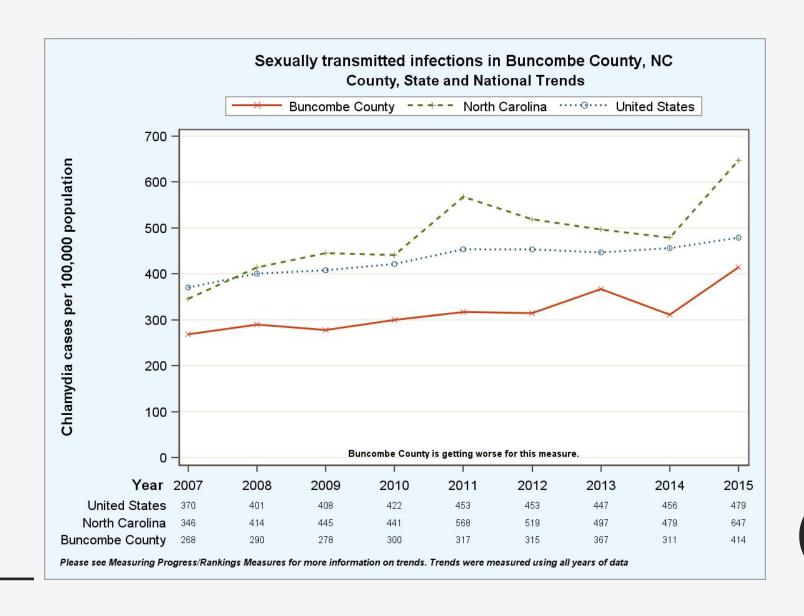




- --- [Monitor] Teen Pregnancy Rate (15-19 years of age) for Buncombe Total (with comparisons)
- --- [Monitor] Teen Pregnancy (15-19 years of age) for Buncombe White Non-Hispanic
- -- [Monitor] Teen Pregnancy (15-19 years of age) for Buncombe African American Non-Hispanic
- -o- [Monitor] Teen Pregnancy (15-19 years of age) for Buncombe Hispanic -- [Monitor] Teen Pregnancy (15-19 years of age) for North Carolina Total

The Rise in STIs

From 2007 to 2011 the sexually transmitted infection rate has increased from 262.8 to 316.8⁶
In 2015 it was up to 414.3⁷



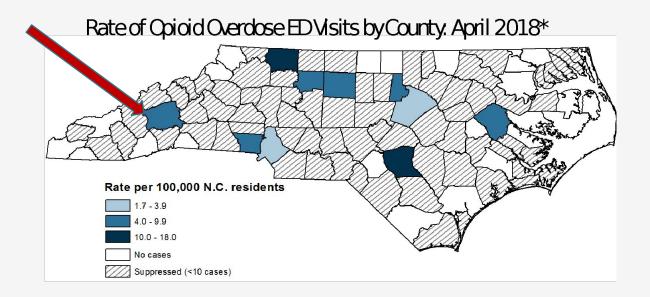
Mental Health Conundrum & Coping

- In Buncombe, the percent of people without access to mental health care or counseling has increased from 6.6% in 2012 to 8.3% in 2015². Conversely, ratio of population to mental health providers 190:1 (3rd best ratio in the state)³
- In 2016, 17% of adults reported heavy or binge drinking¹⁰
 - In 2014 the reported number was 16% 11
- In 2016, 16% of adults reported being a current smoker¹²
 - In 2014 the reported number was 19% 13
- Opioids use is high

Highest Rates of Opioid Overdose EDVisits by County.

County	Count	Rate
Surry•	13	18.0
Cumberland•	36	11.0
Gaston•	14	6.5
Buncombe	15	5.9
Pitt	10	5.6
Guilford	27	5.2
Forsyth•	17	4.6
Durham	14	4.6
Mecklenburg	33	3.1
Wake	18	1.7

Note: Rate per 100,000 N.C. residents; Rates not shown for counties <10 cases;



Where Buncombe County Ranks

^{• ≥5} overdoses this month compared to last month.

Impact of the Opioid Crisis on Buncombe County (2016)

Population: 253,178

Total Opioid Pills Prescribed in 2016: 17,221,655

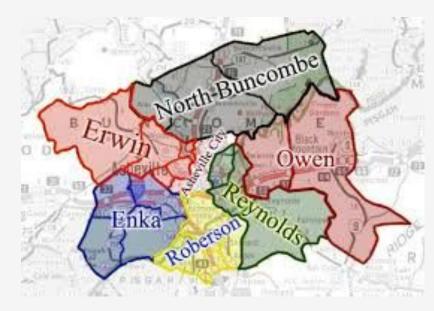
68 Opioid Pills per Resident

Inmates on Detox Protocol in County Detention Center in 2016: approximately 800

Babies Delivered at Mission Hospital with a positive toxicology in 2016: 399 (154 babies are Buncombe County Residents)

TOTAL: \$19 million spent in County Services due to Opioid Crisis

Key takeaways



Buncombe County School Districts

- The prevalence of anyone having an ACE is higher in Buncombe County compared to WNC and the State. This includes overall ACE scores and specific questions on the ACE screen.
- Trauma does not discriminate AND females do experience higher rates in our community.
- The trauma created by ACEs often makes thriving more difficult.
- The high prevalence and risk of ACEs occurring here is cause for our pilot program,
 Communicating Resiliency.

Headline community indicators for prioritizing

- % of Buncombe County residents with High ACE Scores (3-8)
- % of people in Buncombe County without access to mental health care/counseling
- % of people in Buncombe County who have experienced sexual abuse
- Teen pregnancy rates among Hispanic and African American women
- Heavy drinking among NC residents with High ACE Scores
 - May expand to other drinking community indicators
 - Teen drinking
- Others?
 - Data development agenda

Considerationsfor who we will serve (customers) through this targetedcommunicationcampaign

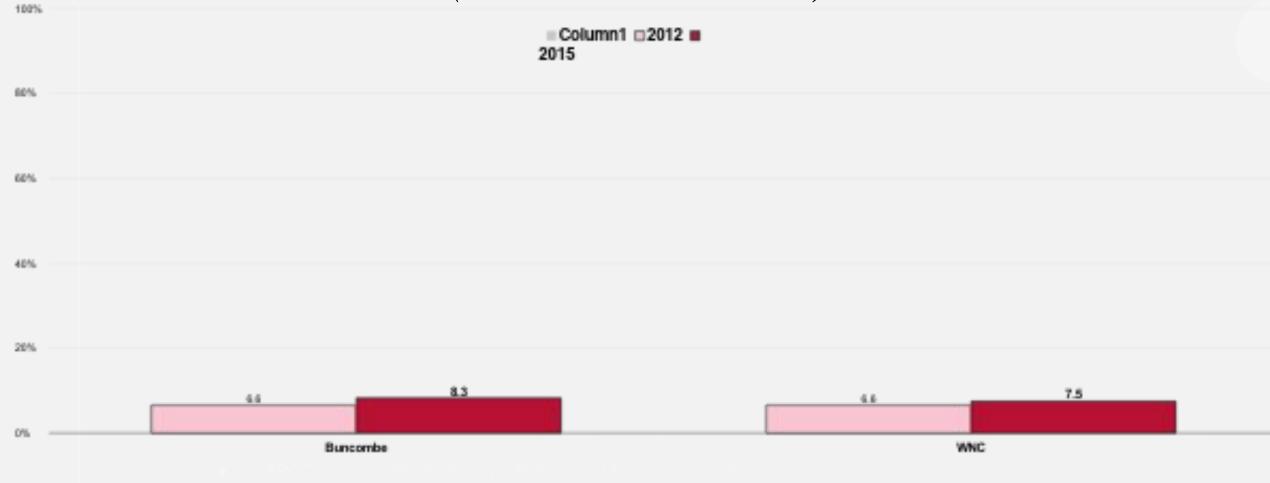
- Characteristics that increase risk and correlate with outcomes:
- Female, living in Buncombe County
- Minorities
- Teens (Pregnancy rates)
- Those at risk for experiencing, perpetrating and/or providing support
- Actionable youth (grades 6-12)
- Teachers, mentors, role models (can positively effect outcomes)

BRIEF SPACE FOR PROCESSING

"TURNING THE CURVE" ON TRAUMA IN OUR COMMUNITY

CLOSING, NEXT STEPS AND THANK YOU

UNABLE TO GET NEEDED MENTAL HEALTH CARE OR COUNSELING IN THE PAST YEAR (BUNCOMBE COUNTY)



Qualitative responses ranked from highest to lowest (Most common answer at the top)

Some respondents who answered that they were <u>unable to get needed mental health care or counseling</u> named some of the barriers to why.

2012

Don't Have Insurance/Could Not Afford It
Don't Know/Not Sure
Apprehension/Fear/Nervousness/Embarrassment
Never Got Around to Going
Didn't Accept Medicaid/Insurance

Didn't Know Where to Go

Difficulty Getting Appointment

Inconvenient Hours

2015

Don't Have Insurance/ Could Not Afford It

Difficulty Getting Appointment

Never Got Around to Going

Apprehension/Fear/Nervousness/Embarrassment

Inconvenient Hours

Didn't Want It

No Counselor Available

Lack of Transportation

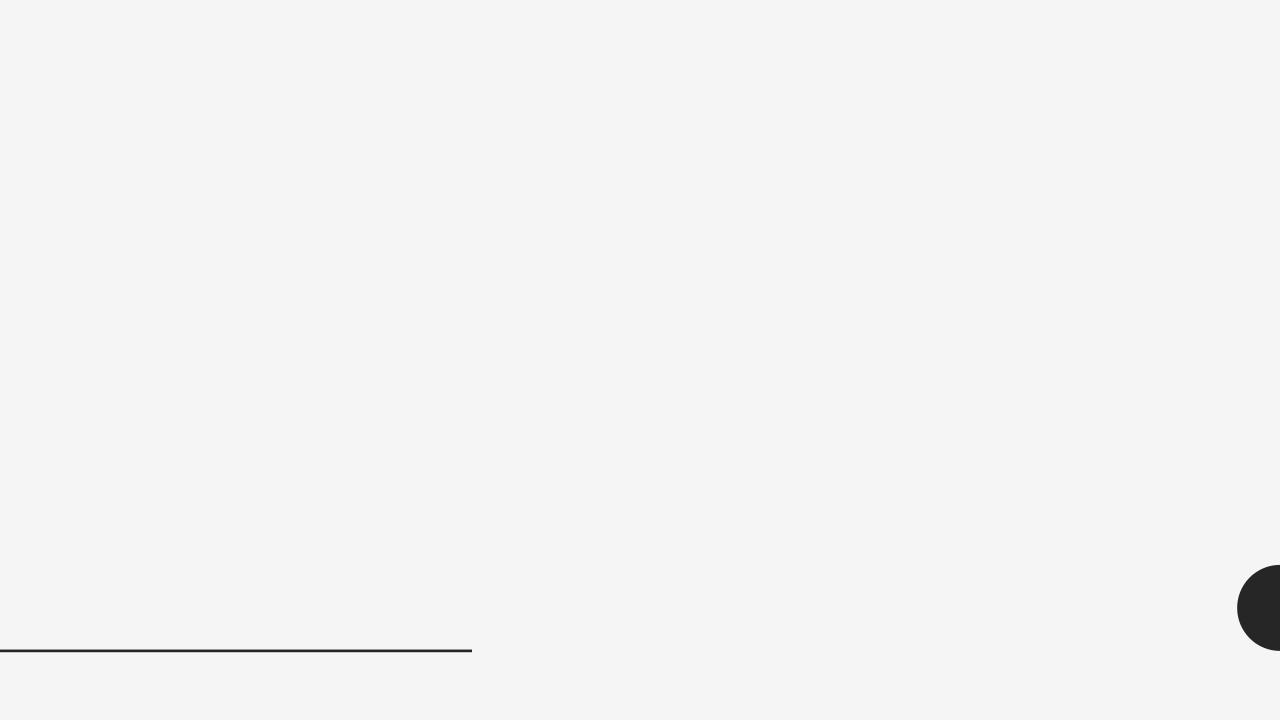
Health of Another Family Member

Didn't Accept Medicaid/Insurance

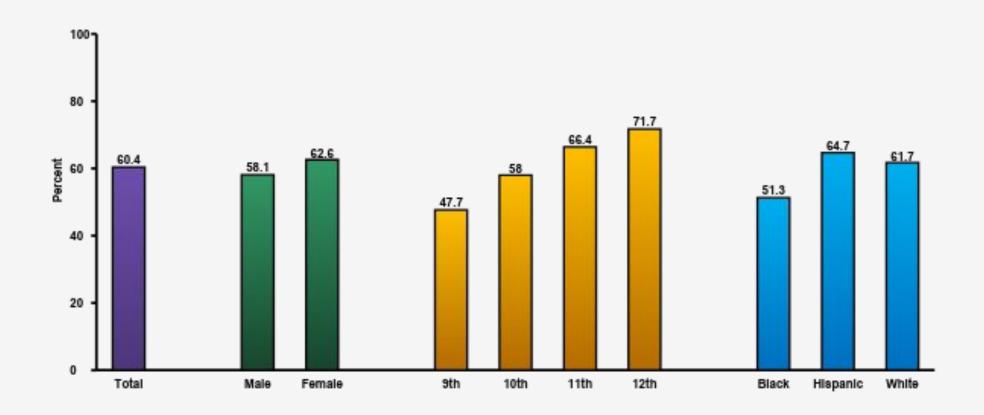
Thought I could get through it on my own

My Health

Don't Know/Not Sure



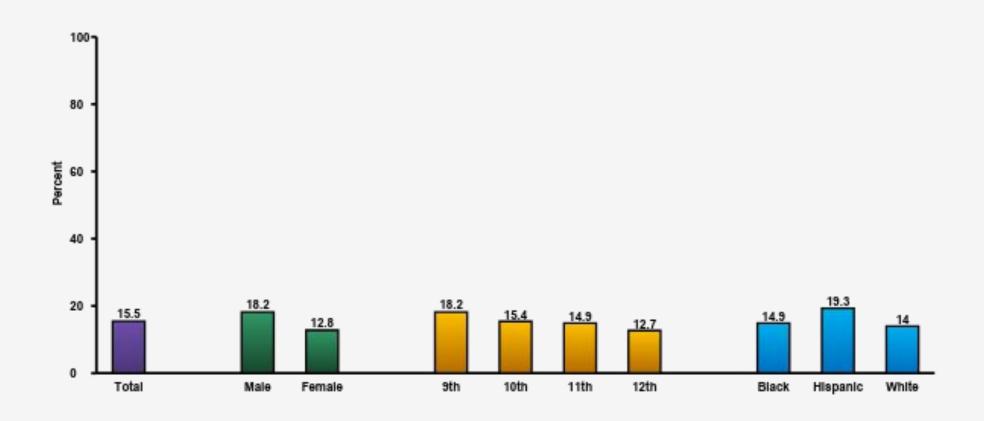
Percentage of High School Students Who Ever Drank Alcohol,* by Sex,* Grade,* and Race/Ethnicity,* 2017



^{*}At least one drink of alcohol, on at least 1 day during their life

[†]F > M; 10th > 9th, 11th > 9th, 11th > 10th, 12th > 9th, 12th > 10th, 12th > 11th; H > B, W > B (Based on t-test analysis, p < 0.05.) All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.

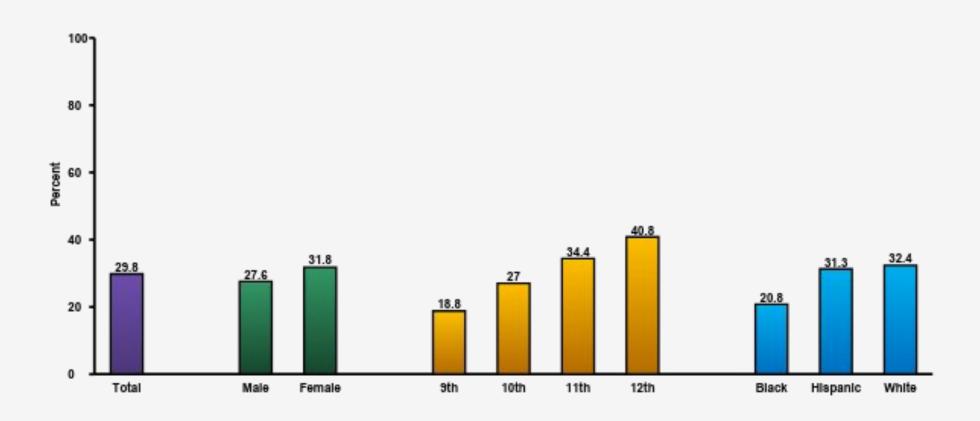
Percentage of High School Students Who Had Their First Drink of Alcohol Before Age 13 Years,* by Sex,† Grade,† and Race/Ethnicity,† 2017



^{*}Other than a few sips

 $^{^{\}dagger}M > F$; 9th > 11th, 9th > 12th, 10th > 12th, 11th > 12th; H > B, H > W (Based on t-test analysis, p < 0.05.) All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.

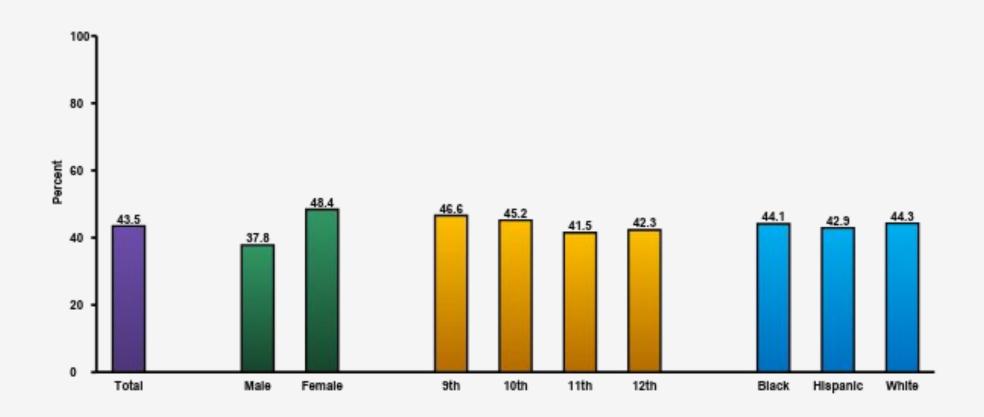
Percentage of High School Students Who Currently Drank Alcohol,* by Sex,† Grade,† and Race/Ethnicity,† 2017



^{*}At least one drink of alcohol, on at least 1 day during the 30 days before the survey

[†]F > M; 10th > 9th, 11th > 9th, 11th > 10th, 12th > 9th, 12th > 10th, 12th > 11th; H > B, W > B (Based on t-test analysis, p < 0.05.) All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.

Percentage of High School Students Who Usually Got the Alcohol They Drank by Someone Giving It to Them,* by Sex,† Grade, and Race/Ethnicity, 2017

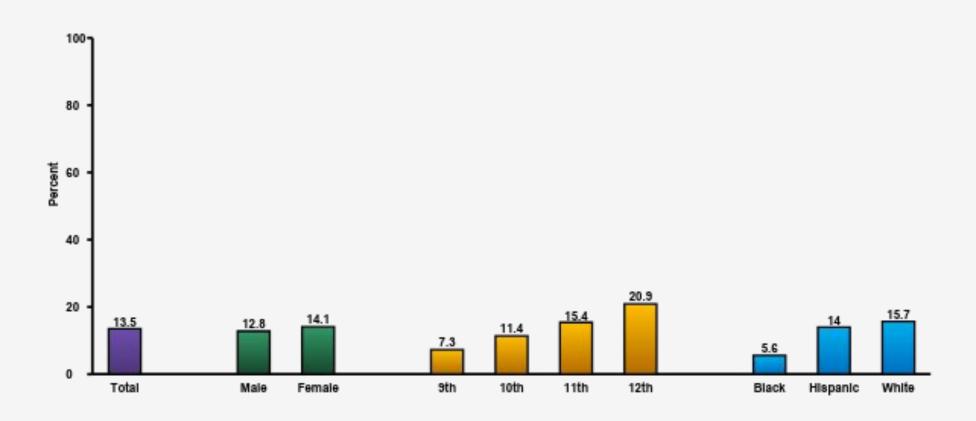


All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.

^{*}During the 30 days before the survey, among students who currently drank alcohol

[†]F > M (Based on t-test analysis, p < 0.05.)

Percentage of High School Students Who Currently Were Binge Drinking,* by Sex, Grade, and Race/Ethnicity, 2017



^{*}Had four or more drinks of alcohol in a row for female students or five or more drinks of alcohol in a row for male students, within a couple of hours, on at least 1 day during the 30 days before the survey

^{†10}th > 9th, 11th > 9th, 11th > 10th, 12th > 9th, 12th > 10th, 12th > 11th; H > B, W > B (Based on t-test analysis, p < 0.05.) All Hispanic students are included in the Hispanic category. All other races are non-Hispanic.



Trends in the Prevalence of Alcohol Use National YRBS: 1991—2017

The national Youth Risk Behavior Survey (YRBS) monitors health behaviors that contribute to the leading causes of death, disability, and social problems among youth and adults in the United States. The national YRBS is conducted every two years during the spring semester and provides data representative of 9th through 12th grade students in public and private schools throughout the United States.

Percentages								Trend from 1991–2017 ¹	Change from 2015–2017 ²						
1991	1993	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017		
	Ever drank alcohol at least one drink of alcohol on at least 1 day during their life)														
81.6	80.9	80.4	79.1	81.0	78.2	74.9	74.3	75.0	72.5	70.8	66.2	63.2	60.4	Decreased 1991—2017 Decreased 1991—2007 Decreased 2007—2017	No change
	alcoho eir first d		The same of the sa												
32.7	32.9	32.4	31.1	32.2	29.1	27.8	25.6	23.8	21.1	20.5	18.6	17.2	15.5	Decreased 1991—2017 No change 1991—1999 Decreased 1999—2017	No change
	Current alcohol use at least one drink of alcohol on at least 1 day during the 30 days before the survey)														
50.8	48.0	51.6	50.8	50.0	47.1	44.9	43.3	44.7	41.8	38.7	34.9	32.8	29.8	Decreased 1991—2017 Decreased 1991—2007 Decreased 2007—2017	No change

¹ Based on linear and quadratic trend analyses using logistic regression models controlling for sex, race/ethnicity, and grade, p < 0.05. Significant linear trends (if present) across all available years are described first followed by linear changes in each segment of significant quadratic trends (if present).

² Based on t-test analysis, p < 0.05.