MINNESOTA STUDENT SURVEY (MSS)

2016 STUDENT ACE DATA

Minnesota State Epidemiological Outcomes Workgroup

Compiled by EpiMachine, LLC on behalf of the Minnesota Department of Human Services, Alcohol and Drug Abuse
Minnesota Timeline

2001
Some ACE items on Minnesota Student Survey (MSS) as early as 2001

2009
Keynote by Dr. Anda at Strong Foundations Birth to Three Conference

2010
Public-private partnership formed between U of MN, United Way, PCAM, + MN Depts. of Health, Human Services, Education

2011
ACEs added to BRFSS; ACE capacity coaches trained; community dialogues about ACEs

2012
MN delegation attended SAMHSA’s State Policy Academy on Prevention Mental and Substance Use Disorders in Children + Youth

2013
MSS ACE items added/revised; MN delegation traveled to Washington State for “learning journey”

2015
ACE items added to Boynton Health Services’ College Student Health Survey

2016
Latest MSS ACE findings
Minnesota student survey

- Collaboration between Minnesota Schools and Depts. of Education, Health, Human Services, and Public Safety
  - Administered in first half of 2016 to students in grades 5, 8, 9, and 11
  - 85% of public school districts participated in 2016
  - Statewide sample size = 168,733
Seven* ACE Items

- Incarcerated parent/caregiver
- Living with someone who drinks too much alcohol
- Living with someone who uses illegal drugs or abuses prescription drugs
- Verbal abuse
- Physical abuse
- Household domestic abuse
- Sexual abuse

*Some people include additional items, such as measures of poverty and/or dating violence
Frequency of ACE Categories among Minnesota 8th, 9th, and 11th Graders

2016 MSS

- Caregiver incarceration: 17%
- Verbal abuse: 14%
- Physical abuse: 12%
- Household alcohol problems: 10%
- Domestic violence: 7%
- Household drug use: 5%
- Sexual abuse: 5%
8th graders were as likely as 11th graders to report 4+ ACEs.
Percentage of Minnesota 8th, 9th, and 11th Graders Reporting One+ ACEs, MSS 2016

- 26% to 33%
- 34% to 37%
- 38% to 41%
- 42% to 62%
- No data
ACEs + Past Month Substance Use
MSS 2016

ACE Score 0 | ACE Score 1 | ACE Score 2 | ACE Score 3 | ACE Score 4+
---|---|---|---|---
9% | 17% | 23% | 31% | 44%

ACE Score 0 | ACE Score 1 | ACE Score 2 | ACE Score 3 | ACE Score 4+
---|---|---|---|---
4% | 11% | 17% | 22% | 34%

ACE Score 0 | ACE Score 1 | ACE Score 2 | ACE Score 3 | ACE Score 4+
---|---|---|---|---
2% | 6% | 9% | 13% | 24%
ACES + Suicidal Ideation/Attempt

Minnesota 8th, 9th, and 11th Graders Reporting Past Year Suicidal Ideation and Attempts, by ACE Score, 2016 MSS

- **ACE Score 0**: 6% Seriously considered suicide in the past year, 1% Actually attempted suicide in the past year
- **ACE Score 1**: 15% Seriously considered suicide in the past year, 4% Actually attempted suicide in the past year
- **ACE Score 2**: 25% Seriously considered suicide in the past year, 7% Actually attempted suicide in the past year
- **ACE Score 3**: 33% Seriously considered suicide in the past year, 13% Actually attempted suicide in the past year
- **ACE Score 4+**: 45% Seriously considered suicide in the past year, 23% Actually attempted suicide in the past year
Protective Factors

- Adults in community care
- Neighborhood is safe
- Participation in pro-social community activities

- Educational engagement
- Teacher-student relationships
- Participation in school activities

- Other adult relatives care
- Can talk to at least one parent about problems

- Hope for future
- Ability to make good decisions
- Feeling valued and appreciated
- Having useful roles
Educational Engagement

Among those with 2+ ACEs, students with greater educational engagement are less likely to report:

- Past month alcohol use: 23% vs. 40%
- Past month Rx misuse: 10% vs. 19%
- Past year suicidal ideation: 27% vs. 38%
Teacher-Student Relationships

Among those with 2+ ACEs, students with stronger teacher-student relationships are less likely to report:

- Past month alcohol use: 25% vs. 36%
- Past month Rx misuse: 9% vs. 16%
- Past year suicidal ideation: 21% vs. 35%
Caring Adults in Community

Among those with 2+ ACEs, students who feel adults in their community care about them are less likely to report:

- Past month alcohol use: 22% vs. 32%
- Past month Rx misuse: 9% vs. 14%
- Past year suicidal ideation: 19% vs. 35%
Data Sharing

**How?**
- Teacher in-services
- Lunch-n-learns at local clinics
- Town hall forums/community listening sessions
- Training for local law enforcement

**Why?**
- Build buy-in for prevention efforts
- Raise awareness of local needs
- Show how community partners can enhance protective factors that buffer risks associated w/ ACEs
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