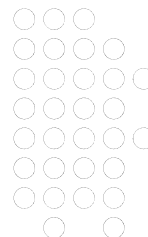


The Utility of Using Multiple Data Sources for Suicide Prevention Evaluation

CARING ABOUT LIVES IN MAINE GLS GRANT

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GLSMA Grant Goal

- Build competent communities that identify and appropriately respond to youth at risk for suicide.
- Able to effectively manage the environment if a suicide occurs.



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Workshop Agenda



- Three evaluation components that complement the learning of the program
 - School and Community Based Evaluation
 - Epidemiology
 - Violent Death Reporting
- How the use of multiple data sets enhances our understanding of the dynamics of youth suicide
- How the use of multiple data sets enhances our ability to design and implement evidence-based prevention & intervention strategies

Interviews



Description of Data

Interviews with key contacts in schools & agencies

What we Want to Learn

- Fidelity and adaptations
- Implementation successes and challenges
- Perceived impacts
- Use of protocols
- Changes attributable to program
- Perceived impacts
- Key events

Challenges

- Time intensive
- Transcription
- Data management
- Staff changes
- Limited perspectives

Considerations

- Roles and numbers of interviewees from each school/community
- Balance between structured questions and probing
- Transcription

Staff Training Data



Description of Data

Surveys of staff who participated in day-long Gatekeeper and/or staff awareness training

What We Want to Learn

- Changes in knowledge, attitudes, confidence and referrals
- Difference in impact by roles
- Changes in # of identifications
- Outcomes differences by training received?

Challenges

- Returns
- Matching surveys
- Anonymous surveys = no specific follow-up
- Added Gatekeeper trainings
- Spread of training dates

Considerations

- Immediate posttest or not?
- How many follow-ups?
- Matching system
- Encouraging returns
- Paper vs. web-based

Early Identification and Referral Data



Description of Data

Expanded web-based version of the EIRF data collection. Data are collected from project and comparison schools.

What We Want to Learn

- # students
- Demographics
- 1st to identify student
- Signs that prompt concern
- Action taken by staff
- Follow through with referral
- Results of assessment

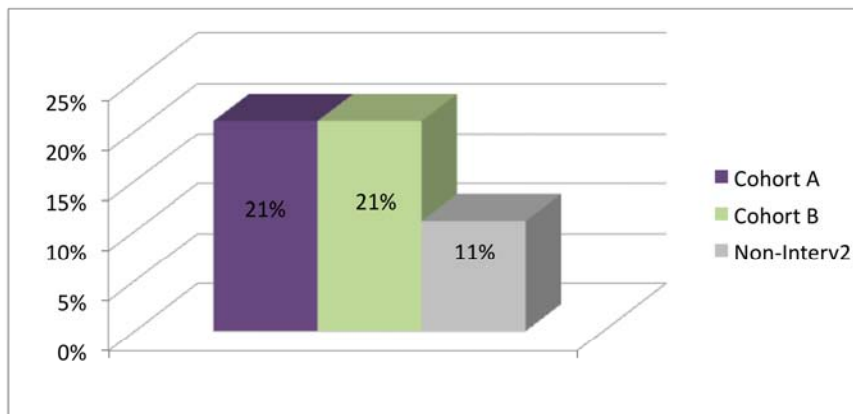
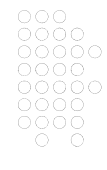
Challenges

- Consistent reporting
- Coordinated system of sharing and reporting data
- Confidentiality
- Total ids vs. total students

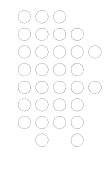
Considerations

- Collection & submission of data?
- Confidentiality barriers
- Student identifiers
- Obtaining follow-up data

Peer Identification



Crisis Agency Data



Description of Data

Data from agencies serving communities in each cohort. Information on youth seen for concern of suicide

Challenges

- Data not electronic
- HIPPA
- Limited staff
- Data inconsistencies

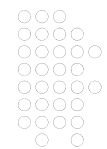
What We Want to Learn

- Demographics of youth served
- Referral source
- Outcome of assessment

Considerations

- Data retrieval
- HIPPA and data disaggregation
- Staff to gather and submit data
- Cost to agency?
- Consistent data

Youth Survey Data



Description of Data

School-based student survey
(Youth Risk Behavior Survey)

What We Want to Learn

- Prevalence of youth suicide ideation and attempts
- Trends over time
- Risk and protective factors of suicide

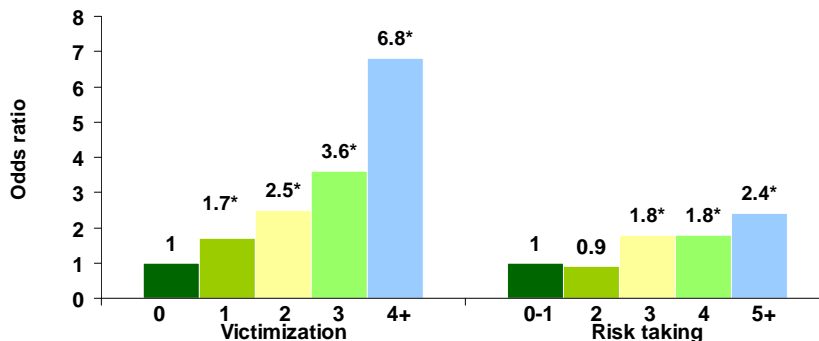
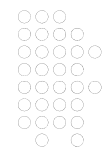
Challenges

- Complex survey design methods
- Limited number of suicide questions
- Timing (biennial)

Considerations

- May not fulfill need for local-level data
- Available online

Odds of Suicide Ideation by Number of Victimization/Risk Experiences

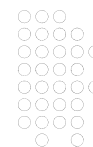


*p<.01 Adjusted for sex, grade, race, same sex sexual contact

Victimization=Dating violence, sexual assault, threatened at school, property damaged at school, unsafe at school, racial harassment, sexual orientation harassment

Risk behaviors=low grades, multiple sexual partners, substance use, smoking, binge drinking, fighting at school, weapon to school, eating disorder

Hospitalization/ED Data



Description of Data

Statewide discharge information from hospitals.

Challenges

- Low numbers
- Years of available data
- Unknown behavioral intention

What We Want to Learn

- Rates of intentional self-injury
- Trends over time
- Comparison of self-injury hospitalization rates between intervention and control.

Considerations

- May not be available in every state
- Need zip code or geocode in database to link to school or community

Hospitalization rates (per 10,000) for self-inflicted injury among youth age 14-19 years, Maine 2001-2006



	Cohort A	Cohort B	Comparison
2001-2002	20.4	11.4	24.4
2003-2004	21.6	25.7	29.0
2005-2006	14.3	8.8	22.8
2007	TBD	TBD	TBD

Medicaid/Private Insurance Data



Description of Data

Medical care use claims from those insured.

Challenges

- Accessing data
- Analyzing data
- Sample size

What We Want to Learn

- Contact with health care providers prior to and after self-injury hospitalization

Considerations

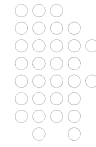
- Relationship with Medicaid agency
- Claims coding

Maine Violent Death Reporting System



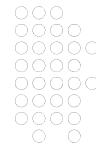
- Abstracted and analyzed all youth suicide cases from 2005-2008
- In process of abstracting 2000-2004, 2009
- Multiple data sources
 - Death Certificates
 - Medical Examiner Reports
 - Police Reports
 - Suicide Notes
 - Hospital/Physician Reports (as available)
 - Mental Health Provider Reports (as available)
- Goal: Better understanding of youth's life before suicide – where are the potential prevention/intervention points

MEVDRS – Description of Data



- Paper records at ME office
- Standard form for DC
- ME reports vary according to who completed and the extent of examination
- Police reports vary according to Department, extent of investigation, both objective and subjective data, anecdotal, suicide notes (if available)
- Suicide notes original documents
- Hospital/physician records to the extent requested by ME office
- Mental Health/Psychiatric records to the extent requested by ME office

MEVDRS – What We Want to Learn



- Circumstances surrounding death
- Person's life experiences for the prior six ~ months
- What risk factors/behaviors did the decedent have
- Demographic information – age, sex, education, transition period

MEVDRS Data Challenges



- Incomplete data sets
 - Three required documents collected within 18 months after death
 - Files don't generally contain medical information
 - Cases are generally not fully investigated (suicide is not a criminal act)
- Anecdotal evidence
 - Investigators not trained to do after-suicide debriefing
- Subjective assessments by law enforcement
 - "I couldn't find any reason for him to commit suicide. His girlfriend broke up with him last night but I don't see how that is important."

MEVDRS Spectrum of Risk Variables



- | | |
|--------------------------|----------------------|
| ● Toxicology Screening | ● School |
| ● Mental Health | ● Finance |
| ● Substance Abuse | ● Recent Suicide |
| ● Crisis | ● Other Death |
| ● Physical Health | ● Legal – Criminal |
| ● Interpersonal Problems | ● Legal – Civil |
| ● Interpersonal Violence | ● Expressed Intent |
| ● Relationship Problems | ● History of Suicide |
| ● Job | |

Sustainability of School-based Prevention Program



- Strong consistent champion in the school
- Core of consistent staff
- Supportive administration
- Continued updates and awareness for staff
- Ensure new staff receive training, esp., health teachers
- Adequate number of trained Gatekeepers
- Continued availability of program & evaluation staff

Evaluation Informs Program



- Creation of Protocol Development Workshop
- Change in composition, development and maintenance of school-community referral networks
- Change in coordination of school-based efforts
- Discontinuation of school data-tickler system
- Discussions with schools on where information about student risk resides
- Creation of curriculum for students transitioning in life
- More current information on risks faced by adolescents

Group Questions



- What data sets are you currently using in your project?
- What challenges have you encountered in using multiple databases?
- What data sets might be available for you to use in your project?
 - Who has them?
 - How do you access them?
 - Is there added value?
- When do you reach saturation with data sets?
- How do you use these data to inform programming?