Treatment for Suicidal Ideation, Self-Harm, and Suicide Attempts Among Youth



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MESSAGE FROM THE ASSISTANT SECRETARY FOR MENTAL HEALTH AND SUBSTANCE USE, U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

As the U.S. Department of Health and Human Services Assistant Secretary for Mental Health and Substance Use at the Substance Abuse and Mental Health Services Administration (SAMHSA), I am pleased to present this new resource: *Treatment for Suicidal Ideation, Self-Harm, and Suicide Attempts Among Youth.*

In response to the charge of the 21st Century Cures Act to disseminate information on evidence-based practices and service delivery models, the National Mental Health and Substance Use Policy Laboratory developed the Evidence-Based Resource Guide Series focused on the prevention and treatment of substance use disorders and mental illnesses. With this specific guide, SAMHSA's goal is to inform healthcare professionals, healthcare system administrators, teachers and school administrators, parents, community members, policy makers, and others of the strategies for treating suicidal ideation, self-harm, and suicide attempts among youth.

Suicide is the second leading cause of death for youth in the United States. The suicide rate for youth aged 10 to 24 increased 57.4 percent from 6.8 per 100,000 in 2007 to 10.7 per 100,000 in 2018. Many factors contribute to thoughts of suicide in this population, including depression, hopelessness, low self-esteem, peer and parental relationship problems, academic difficulties, and substance use. Suicide is preventable, suicidal thoughts and behaviors are treatable, and interventions are available and should be accessible to any young person who needs help.

This guide discusses the prevalence of suicide among youth, effective treatment programs, implementation considerations and strategies, and examples of the successful use of programs in clinical and community-based settings. I encourage you to use this guide to identify treatment programs you can implement to address suicidal ideation, self-harm, and suicide attempts among youth in your communities.

Elinore F. McCance-Katz, MD, PhD Assistant Secretary for Mental Health and Substance Use

U.S. Department of Health and Human Services

¹ Curtin, S. C. (2020). *State suicide rates among adolescents and young adults aged 10-24: United States, 2000-2018*. National Center for Health Statistics, Centers for Disease Control and Prevention. https://www.cdc.gov/nchs/data/nvsr/nvsr69/nvsr-69-11-508.pdf.

FOREWORD

Evidence-Based Resource Guide Series Overview

The Substance Abuse and Mental Health Services Administration (SAMHSA), and specifically, its National Mental Health and Substance Use Policy Laboratory (Policy Lab), is pleased to fulfill the charge of the 21st Century Cures Act to disseminate information on evidence-based practices and service delivery models to prevent substance misuse and help people with substance use disorders (SUD), serious mental illnesses (SMI), and serious emotional disturbances (SED) get the treatment and support they need.

Treatment and recovery for SUD, SMI, and SED can vary based on several geographic, socio-economic, cultural, gender, race, ethnicity, and age-related factors which can complicate evaluating the effectiveness of services, treatments, and supports. Despite these variations, however, there is substantial evidence to inform the types of resources that can help reduce substance use, lessen symptoms of mental illness, and improve quality of life.

The Evidence-Based Resource Guide Series is a comprehensive set of modules with resources to improve health outcomes for people at risk for, with, or recovering from mental and/or substance use disorders. It is designed for practitioners, administrators, community leaders, and others considering an intervention for their organization or community.

A priority topic for SAMHSA is ensuring the availability of effective treatment for youth with suicidal ideation or who have attempted suicide or engaged in self-harm. This guide reviews the related literature and science, examines emerging and best practices, identifies gaps in knowledge, and discusses challenges and strategies for implementation.

Expert panels of federal, state, and non-governmental participants provide input for each guide in this series. The panels include accomplished scientists, researchers, service providers, community administrators, federal and state policy makers, and people with lived experience. Members provide input based on their knowledge of healthcare systems, implementation strategies, evidence-based practices, provision of services, and policies that foster change.

Research shows that implementing new programs and practices requires a comprehensive, multi-pronged approach. This guide is one piece of an overall approach to implement and sustain change. Users are encouraged to review the <u>SAMHSA website</u> for additional tools and technical assistance opportunities.

Content of the Guide

This guide contains a foreword and five chapters. The chapters stand alone and do not need to be read in order. Each chapter is designed to be brief and accessible to healthcare providers, healthcare system administrators, community members, policy makers, and others working to meet the needs of individuals at risk for, experiencing, or recovering from mental and/or substance use disorders.

The goal of this guide is to review the literature on treatment for suicidal ideation, self-harm, and suicide attempts among youth, distill the research into recommendations for practice, and provide examples of how practitioners can use these practices in their programs. The programs included in this guide focus on adolescents and young adults who are currently experiencing suicidal ideation, self-harm, and/or suicide attempts, and addresses risk factors unique to this population. The programs can be implemented by mental health professionals in a variety of settings, including schools, community mental health centers, residential facilities, or juvenile justice programs.

FW Evidence-Based Resource Guide Series Overview Introduction to the series.

1 Issue Brief

Overview of current approaches and challenges to addressing suicidal ideation, self-harm, and suicide attempts among youth.

2 What Research Tells Us

Current evidence on effectiveness of the following programs included in the guide to treat suicidal ideation, self-harm, and suicide attempts among youth: Dialectical Behavior Therapy; Attachment-Based Family Therapy; Multisystemic Therapy-Psychiatric; Safe Alternatives for Teens and Youth; Integrated Cognitive Behavioral Therapy; and Youth-Nominated Support Team-Version II.

3 Guidance for Selecting and Implementing Evidence-Based Programs

Practical information to consider when selecting and implementing programs and practices to treat suicidal ideation, self-harm, and suicide attempts among youth.

4 Examples of Suicide Treatment Programs

Examples of programs to treat suicidal ideation, self-harm, and suicide attempts among youth.

5 Resources for Evaluation and Quality Improvement

Guidance and resources for implementing programs and practices, monitoring outcomes, and improving quality.

FOCUS OF THE GUIDE

Suicide is the second leading cause of death for youth and young adults in the United States. Factors contributing to thoughts of suicide in this population include mental health and substance use problems, low self-esteem, peer and parental relationship problems, and academic difficulties.

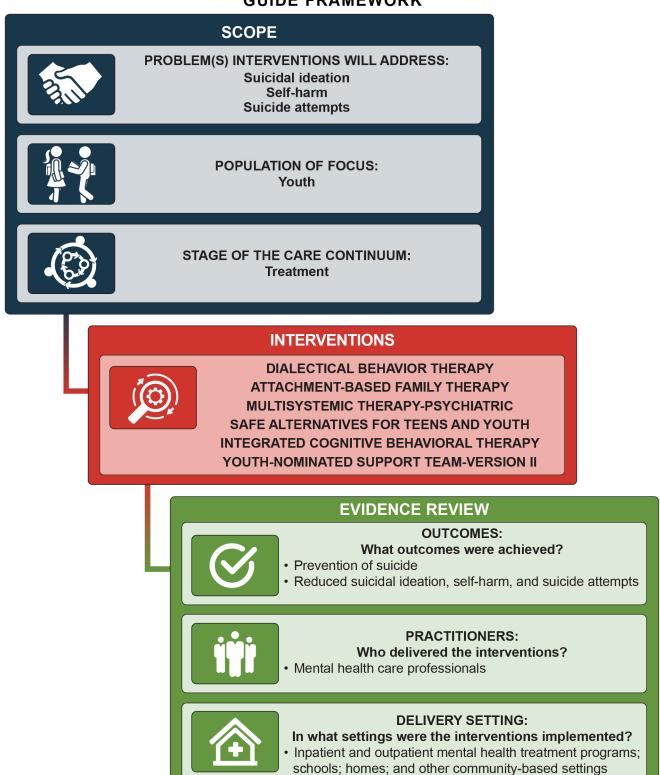
Suicidal ideation, self-harm, and suicide attempts are higher among youth than adults. Approximately 17 percent of high school students reported suicidal ideation in the past year, and 7.4 percent of high school students reported a suicide attempt in the same period. The prevalence of suicidal thoughts and behaviors is higher in some groups, including LGBTQ+ youth and racial and ethnic minorities, particularly American Indian and Alaska Native youth and youth of more than one race.

This guide presents programs and practices that address effective treatment of suicidal thoughts, suicidal behaviors, and self-harm among youth and young adults.

Interventions need to be part of a comprehensive approach that seeks to decrease suicide risk factors and increase protective factors. In addition, systemic barriers to effective treatment for youth need to be addressed, including appropriate referrals and linkage to treatment services, improved education and training for healthcare professionals, and increased availability of services and insurance coverage for diagnosis and treatment of mental disorders and suicidal behaviors.

The framework below provides an overview of this guide. The review of treatment programs in Chapter 2 of the guide includes specific outcomes, practitioner types, and delivery settings for the programs.

GUIDE FRAMEWORK



CHAPTER

Issue Brief

Suicide, suicide attempts, self-harm, and suicidal ideation are significant public health concerns in young people. Suicide is now the second leading cause of death for adolescents and young adults aged 15 to 24 in the United States,¹ and suicide attempts are significantly higher among youth, compared to adults.²⁻³ Suicidal ideation, self-harm, and suicide attempts are more common than suicide death in young people, and are associated with several other negative consequences, such as co-morbid mental disorders, poor educational and vocational outcomes, and premature death due to other causes.⁴ Studies show that people who attempt suicide in adolescence have a higher likelihood of mental health treatment utilization, mental illness diagnosis, and adult suicide.⁵

The impacts of youth suicide extend beyond the individual. Research indicates exposure to a suicide (e.g., schoolmate's suicide and personally knowing someone who died by suicide) predicts suicide ideation and attempts. The National Longitudinal Survey of Adolescent Health reveals that for the first year following a friend's death by suicide, peers experience heightened suicidal ideation and attempts, as well as higher rates of depression.

What is Suicide?

Suicide is a death caused by self-directed injurious behavior with any intent to die as a result of the behavior.⁸

A **suicide attempt** is a non-fatal, self-directed, and potentially injurious behavior with any intent to die as a result of the behavior. Previous suicide attempts

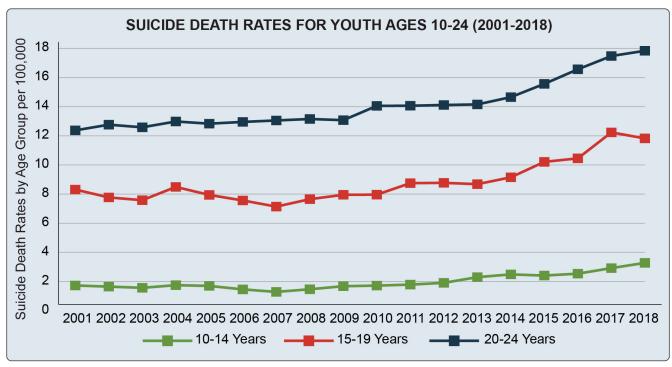
Suicide is now the second leading cause of death for adolescents and young adults aged 15 to 24 in the United States,¹ and suicide attempts are significantly higher among youth, compared to adults.²⁻³

significantly increase a youth's risk of death by suicide⁹ and often lead to subsequent and more lethal suicide attempts.¹⁰

Suicide contagion is a process where exposure to the suicide or suicidal behaviors of others influences people who are already vulnerable and considering suicide. Exposure to suicide by a close friend, family member, or another person within one's social network is considered a significant suicide risk factor for individuals and communities.¹¹

Suicidal ideation refers to thinking about or planning suicide. The thoughts lie on a continuum of severity from a wish to die with no method, plan, intent, or behavior, to active suicidal ideation with a specific plan and intent. ¹² Although suicidal ideation does not include physically harmful behaviors, over one third of adolescents who experience suicidal ideation will attempt suicide within their lifetimes. ¹³

Self-harm is behavior that is self-directed and deliberately results in injury or the potential for injury to oneself.⁸ The term, also referred to as self-directed violence, encompasses both suicidal and non-suicidal self-injury (NSSI), and self-harm with unclear intent. NSSI is distinguished from a suicide attempt or suicide because it does not include suicidal intent.¹⁴ NSSI is considered a significant risk factor for both suicide attempts and death by suicide and may or may not accompany suicidal ideation.¹⁵

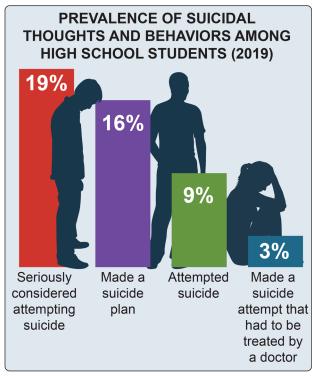


Source: CDC Web-based Injury Statistics Query and Reporting System (WISQARS)1.

Prevalence

The suicide death rate for adolescents and young adults has increased in the past two decades. In 2018, the suicide death rates for adolescents and young adults were 2.85 per 100,000 for ages 10 to 14, 11.39 per 100,000 for ages 15 to 19, and 17.4 per 100,000 for ages 20 to 24. In all age groups, males have a higher suicide death rate than females. However, from 1999 through 2018, the suicide death rate doubled for females aged 15 to 19 and 20 to 24. For youth aged 10 to 14, the suicide death rate more than tripled from 2001 to 2018. 16-17 Explanations for the increase in suicide may include bullying, social isolation, increase in technology and social media, increase in mental illnesses, and economic recession.

Suicidal ideation, self-harm, and suicide attempts are significantly higher in youth compared to adults, despite adult suicide death rates being higher. ^{1,3,18} In 2019, approximately 18.8 percent of high school students reported suicidal ideation in the past year, and 8.9 percent of high school students reported a suicide attempt in the past year. ³ Rates of high school students reporting purposefully hurting themselves without wanting to die over the past 12 months ranged from 6.4 to 14.8 percent for males and 17.7 to 30.8 percent for females in 2015. ¹⁹



Source: 2019 United States Youth Risk Behavior Survey

Prevalence of suicidal thoughts and behaviors is particularly high in lesbian, gay, bisexual, transgender, and questioning or queer youth and youth with other sexual and gender minority identities (LGBTQ+). Lesbian, gay, and bisexual adolescents and young adults are two to four times more likely to report suicidal ideation, self-harm, and a suicide attempt compared to their heterosexual peers.³ Transgender youth are four to five times more likely to attempt suicide compared to their peers who exclusively identify as their sex assigned at birth (i.e., cisgender), with about 34.6 percent reporting a suicide attempt in the past year.²⁰ LGBTQ+ youth often experience unique stressors related to their identity, such as discrimination, violence, trauma, expectations of rejection, concealment of their identity, and internalized homo- and trans-negativity, that increase risk for mental disorders and suicide.²¹

Some racial and ethnic minority youth also experience higher rates of suicidal behaviors. In 2017, American Indian and Alaska Native (AI/AN) youth, as well as youth of more than one race, reported the highest rates of both suicidal ideation and suicide attempts.²² While suicide attempt rates decreased among most racial and ethnic groups between 1991 and 2017, Black youth experienced an increase in suicide attempts and injury by suicide attempt.²² Differences in suicide attempt rates may be attributed to disparities in access to mental health treatment and other factors that AI/AN and Black youth disproportionally experience, including poverty, historical trauma, and adverse childhood experiences.²²⁻²³

Importance of Prevention

While the primary focus of this guide is on treatment approaches, it is necessary to highlight the importance of prevention strategies in stopping young people from engaging in suicidal behaviors. This chapter provides context regarding risk and protective factors and some core prevention strategies critical to treatment program planning and implementation.

The association between alcohol use and suicidal thoughts and behaviors is of concern, since more than 21 percent of youth aged 12 to 17 used alcohol in 2019, and 9.4 percent reported past month use.²

Risk and Protective Factors

Risk factors are characteristics that potentially increase an individual's level of suicide risk, whereas protective factors are factors that mitigate against risk. Adolescents and young adults are in a state of transition, facing new independence, identity formation, and changing social situations at school and home. The significant physical, hormonal, and social changes of adolescence can increase the likelihood of a young person experiencing anxiety or depression.²⁴

Mental and substance use disorders, including depression, anxiety, bipolar disorders, eating disorders, marijuana use, and alcohol use or misuse, also increase the likelihood and severity of suicidal ideation,²⁵ as well as risk of suicide attempts²⁶ and deaths.²⁷⁻²⁸ Other individual-level risk factors include but are not limited to:

- Previous suicide attempts
- Childhood trauma, such as physical, sexual, and emotional abuse
- Being in the child welfare system
- Being a victim or perpetrator of bullying
- Experiencing a stressful event
- Consistent low-level or toxic stress
- Dysregulated sleep
- Hopelessness
- A sense of losing control
- Emotional reactivity or pattern of aggressive or aggressive-impulsive behavior
- Access to non-secure firearms
- Access to lethal means of suicide, including medications^{11,13,29-31}

Family-level risk factors include parental depression, suicidal behavior, and substance use disorders.³²⁻³³

Marijuana use and depression are associated with suicidal ideation³⁴ and a greater likelihood of suicide attempts among adolescents.³⁵⁻³⁶ Adolescents who use marijuana are also at increased risk of developing depression and suicidal thoughts and behaviors later in life.³⁷ The associations between marijuana, depression, and suicide are growing concerns. Marijuana use, marijuana use disorder, and major depressive episodes increased among adolescents aged 12 to 17 between 2016 and 2019.



Knowledge of risk factors helps clinicians and program administrators understand chronic risks clients have. Although single risk factors are severely limited in their ability to accurately predict suicidal thoughts and behaviors, 38 recent studies suggest that combinations of risk factors predict more effectively. 39 Nevertheless, there is considerable heterogeneity among youth at risk for suicide, and risk levels can increase or decrease over time. Therefore, there is no one-size-fits-all approach to prevention or treatment. 38,40

Factors that *reduce* risk for suicidal thoughts, attempts, and deaths are referred to as protective factors.

Recognizing them is just as important, if not more so, as understanding factors that increase risk. 41 Adolescence offers a period of developmental opportunity to discover new outlooks, form positive relationships, and explore one's identity. It is also a period that can increase resilience when youth overcome challenges and thrive as they develop and mature. 42



- Talking about or making plans for suicide
- Expressing hopelessness about the future
- Displaying severe/overwhelming emotional pain or distress
- Showing worrisome behavioral cues or marked changes in behavior, particularly in the presence of the warning signs above. This includes significant:
 - Withdrawal from or change in social connections/situations
 - Changes in sleep (increased or decreased)
 - Anger or hostility that seems out of character or context
 - Recent increased agitation or irritability⁴³

For more information, visit www.youthsuicidewarningsigns.org

Protective factors that discourage suicide include interpersonal and community connectedness, problem solving skills, adaptability, effective clinical care for physical and mental disorders, and cultural and religious beliefs. 44 By decreasing risk factors and bolstering protective factors, youth have a better opportunity to heal, process, receive support, and grow to be healthy adults. 45 Many of the interventions reviewed in this guide focus on strengthening these and other protective factors found in the youth suicide prevention and treatment literature.

In addition to understanding risk and protective factors, the suicide prevention field is also moving towards a deeper understanding of the specific risks in the months, weeks, days, and hours before a suicidal event occurs. These more immediate risks are often described as suicide warning signs.

Functions Associated with Self-Harm and Suicide Attempts

Different functions and motivations underlie self-harm and suicidal thoughts and behaviors. An understanding of these functions can help inform prevention and intervention approaches. Internal motivators, referred to as **intrapersonal functions**, include emotional pain, hopelessness, and a desire to escape. External factors, referred to as **interpersonal functions**, include conflicts with parents, friends, and significant others, social pressures promoting suicide, and a desire for help from others. 46-47 There can be different factors or motivations related to suicidal behavior and self-harm, but the one defining feature of the suicide attempt is at least some desire to die.

A core set of suicide prevention strategies for communities and states can be found in *Preventing Suicide: A Technical Package of Policy, Programs, and Practices,* developed by the Centers for Disease Control and Prevention.⁴⁸

Prevention and Early Intervention

The 2012 National Strategy for Suicide Prevention (the National Strategy) is a call to action that is intended to guide suicide prevention actions in the United States. The National Strategy recognizes that everyone—businesses, educators, healthcare institutions, government, communities, and individuals—has a role in preventing suicide. Prevention and early intervention policies, programs, and services are critical to addressing suicide risk factors. Population-based prevention approaches throughout childhood and adolescence have the potential to reduce youth suicide rates. These include:

- Preventing trauma and adverse childhood experiences
- Promoting parenting skills training
- Establishing good family supports
- Strengthening positive coping norms
- Implementing policies and laws that reduce binge drinking and access to lethal means

Other prevention and early interventions focus on identifying those at risk and in crisis, implementing programs in settings where at-risk youth are most likely to be, and increasing access to care. Routine screening for mental disorders and suicide risk, suicide risk and safety assessments, and gatekeeper trainings⁴⁹ allow the people most likely to encounter youth experiencing suicidal thoughts and behaviors to identify risk and respond appropriately.

Universal screening for suicide risk using a standardized tool is an essential component of a comprehensive suicide prevention program. Screening helps providers identify individuals who may be at risk and implement appropriate care plans. Suicide screening can be done independently or as part of a more comprehensive health or behavioral health screening. The Ask Suicide-Screening Questions (ASQ), the Columbia Suicide Severity Rating Scale (C-SSRS), and the Patient Health Questionnaire-9 Modified for Teens (PHQ-A) are all validated screening tools for use in medical and other settings for youth. A positive screen is typically followed by a comprehensive suicide risk assessment and safety planning if warranted.

Schools, justice programs, healthcare systems, child welfare agencies, community-based organizations, and other settings and systems youth access can implement prevention programs and services. These can include crisis interventions that address imminent risk and connect people to services, such as hotlines or safety planning. Education and mental health awareness programs also help destignatize mental health concerns and normalize seeking help.

The Substance Abuse and Mental Health Services Administration's Garrett Lee Smith (GLS) Suicide Prevention and Early Intervention Grant Program provides campuses, states, and tribes support to implement comprehensive suicide prevention and early intervention strategies. The grant program has been associated with long-term, lower than expected rates of suicide attempts and deaths. ⁵⁰ The GLS program emphasizes the use of the Zero Suicide framework in youth suicide prevention efforts. The Zero Suicide framework outlines a systematic approach for suicide risk identification and care in health and behavioral health care systems and is a key tenet of the National Strategy. ⁵¹

Treating Suicidal Ideation, Suicide Attempts, and Self-Harm in Youth

The National Strategy also promotes implementation of treatment interventions for those at risk for suicide. Evidence-based treatment approaches for adolescents who present with suicidal ideation or who have made

FDA-Approved Medications for Children and Teenagers

Medication ⁵³⁻⁵⁴ (common brand name)	Age (in years)	Diagnosis
Clomipramine (Anafranil)	10 and older	Obsessive- compulsive disorder (OCD)
Duloxetine (Cymbalta)	7 and older	Generalized anxiety disorder
Escitalopram (Lexapro)	12 and older	Major depressive disorder
Fluoxetine (Prozac)	8 and older	Major depressive disorder
Fluoxetine (Prozac)	7 and older	OCD
Fluvoxamine	8 and older	OCD
Olanzapine and fluoxetine, combination drug (Symbyax)	10 and older	Bipolar depression
Sertraline (Zoloft)	6 and older	OCD

Depression and other mental illnesses in children should be treated. A treatment course often includes psychotherapy and medication.⁵⁵

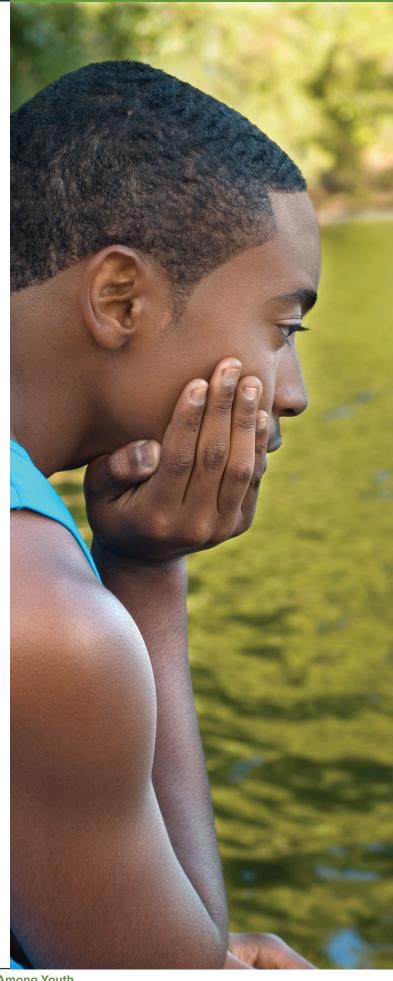
Medications can affect the adolescent brain differently than the adult brain.56 In 2004, the U.S. Food and Drug Administration issued a boxed warning (also referred to as "black box warning") indicating certain antidepressants were associated with an increased risk of suicidal ideation and behaviors in young people. For many youth experiencing depression or anxiety disorders, the benefits of antidepressants outweigh the risks. However, for others, especially those under age 25, the risk for suicide when taking antidepressant medications may be greater.⁵⁷ Therefore, prescribers, clients, and their families should closely monitor for adverse behavioral changes among youth receiving antidepressant therapy in order to reduce the risk of suicidal thoughts and behaviors.56

Safety planning is a collaborative process in which an individual and provider work together to develop a personalized list of coping strategies the individual can use during times of increased suicide risk. Safety planning is brief, effective, and can be done by any health professional with training. Safety planning should be universally available for youth at risk of suicide.

Family Intervention for Suicide Prevention (FISP), also referred to as SAFETY-Acute, is a developmentally-informed safety planning intervention for youth that focuses on building hope and reasons for living, helping youth understand their signs and patterns of emotional escalation, and identifying strategies to stay safe. The intervention assists parents, caregivers, and other caring adults in supporting youth to use their safety plans and restrict access to dangerous suicide/self-harm methods. Caring follow-up contacts are provided until youth successfully link to needed follow-up care. ⁵²

a suicide attempt aim to reduce the frequency and intensity of suicidal ideation and prevent recurrence of self-harm behaviors and premature death. Most effective treatments are conducted by a licensed mental health professional (e.g., psychologist, psychiatrist, clinical social worker, or marriage and family therapist) and take place over multiple sessions. Treatment may occur in a variety of settings, primarily as outpatient, intensive outpatient, and partial hospital programs. In some cases, treatment is initiated in an emergency department or psychiatric hospital following a suicide attempt and continues on an outpatient basis following discharge.

Interventions may primarily focus on treating suicidal thoughts and behaviors directly, but should also address self-harm as a potential symptom of one of the disorders that commonly co-occur with suicidal thoughts and behaviors (e.g., depression, borderline personality disorder). When self-harm behavior or suicide risk is associated with a mental illness, providers need to identify that condition and modify treatment plans to specifically address the risk of suicide.



Medications that are approved for youth by the U.S. Food and Drug Administration (FDA), including antidepressants, anti-anxiety medications, stimulants, antipsychotics, and mood stabilizers, may be helpful in managing underlying mental illness. Individuals should be closely monitored for changes in thoughts of suicide or suicidal behaviors after medications have been initiated or the medication dose is changed.

The focus of this guide is *suicide treatment*. Therefore, it does not review treatments or medication effectiveness for mental disorders, such as depression, that commonly co-occur with suicidal thoughts.

Clinical management of suicidal behaviors can be complex, and specific evidence-based interventions to address suicidal ideation and self-harm behaviors are often underutilized or not available. Numerous individual- and systems-level barriers to treatment for suicidal ideation, suicide attempts, and self-harm exist.

At the individual level, many youth and families have limited knowledge of what treatment options are available and what options are considered evidencebased. Additional barriers include:

- Stigma associated with seeking help, mental illness, and suicide
- Practical barriers to engaging in treatment (e.g., cost, transportation, time)
- Lack of parental support for treatment
- Resistance or limited readiness and motivation to seek treatment

When individuals feel they do not have acceptable treatment options, they are less likely to engage in treatment and adhere to care plans.⁵⁸

At the systems level, noted barriers include:

- Insufficient access to evidence-based treatment
- Lack of culturally responsive treatments
- Limited transportation options (e.g., accessibility/affordability)
- Insurance limitations
- Absence of affordable treatment options⁵⁹⁻⁶⁰

Furthermore, clinicians are often uncomfortable with their skill set for treating of youth experiencing suicidal thoughts and behaviors, or are not adequately trained to address these concerns in this age group.⁶¹

Summary

Suicide is complex, and a comprehensive approach is needed to address different aspects of this preventable public health problem. Evidence-based treatment to address suicidal ideation, self-harm, and suicide attempts is one key aspect of a broader set of programs, practices, and policies that aim to decrease youth suicide risk factors and increase protective factors. Other critical elements to addressing this issue include:

- Effective suicide risk screening, assessment, referrals, and linkage to evidence-based programs
- Improved education and training for mental health care professionals in these interventions
- Increased health insurance coverage for diagnosis and treatment of mental disorders and suicidal behaviors

This guide synthesizes and disseminates current evidence on treatment interventions for youth suicide to make it readily accessible by those on the frontlines helping youth at risk.



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What Research Tells Us

Suicidal ideation, self-harm, and suicide attempts among youth are significant public health concerns. This review of the research literature identified practices and programs used to treat suicidal thoughts and behaviors. The chapter provides an overview of six evidence-based programs, including a discussion of the typical settings, demographic groups, intensity and duration, and outcomes attributed to receipt of the intervention:

- Dialectical Behavior Therapy (DBT)
- Attachment-Based Family Therapy (ABFT)
- Multisystemic Therapy-Psychiatric (MST-Psych)
- Safe Alternatives for Teens and Youth (SAFETY)
- Integrated Cognitive Behavioral Therapy (I-CBT)
- Youth-Nominated Support Team-Version II (YST-II)

Each program or practice description also provides a rating based on its evidence of impacting one or more of the following outcomes: suicidal ideation, self-harm, and suicide attempts among youth. DBT was rated as having strong support for causal evidence, and the other five programs were rated as having moderate support. These programs require more research.

Program Selection

To ensure inclusion of the most useful interventions for addressing suicidal thoughts and behaviors among youth, authors required programs meet the following criteria:

- Clearly defined and replicable
- Address the target outcomes of a reduction in suicidal ideation, self-harm, suicide attempts, and/or death by suicide



- Developed or adapted specifically for youth
- Currently in use
- Demonstrate evidence of impact on the above targeted outcomes
- Include accessible implementation resources

Evidence Review and Rating

Authors conducted a comprehensive review of published research for each selected intervention to determine its strength as an evidence-based practice. Eligible studies had to:

- Employ a randomized or quasi-experimental design, or
- Be a single sample pre-post design or an epidemiological study with a strong counterfactual (i.e., a study that analyzes what would have happened in the absence of the intervention).

Descriptive studies, implementation studies, and meta-analyses were not included in the review but were documented to provide context and identify implementation strengths and challenges for the programs.

Each individual study included in this chapter was reviewed for evidence of measurable reductions in the following outcomes:

- Suicide attempts
- Suicidal ideation
- Self-harm, including non-suicidal self-injury (NSSI)
- Self-harm with unknown intent

Causal Impact: Evidence demonstrating that an intervention causes, or is responsible for, the outcome measured in the study's sample population.

In addition, trained reviewers checked each study to ensure rigorous methodology by asking questions such as:

- Are experimental and comparison groups demographically equivalent, with the only difference being that participants in the experimental group received the intervention and those in the comparison group received treatment as usual or no or minimal intervention?
- Was baseline equivalence established between the treatment and comparison groups on outcome measures?
- Were missing data addressed appropriately?
- Were outcome measures reliable, valid, and collected consistently from all participants?

Using these criteria, authors used a two-step process to assess the strength of each study's methodology and the causal evidence associated with each practice. Each study was given a rating of low, moderate, or high based on the research methods. Only randomized controlled trials, quasi-experimental designs, and epidemiological studies with a strong comparison were eligible to receive a high or moderate rating.

After all studies for a practice were assessed and rated, the practice was placed into one of three categories based on its causal evidence level: strong evidence, moderate evidence, or emerging evidence.

This chapter includes an outcomes table for each intervention that summarizes study findings. For each outcome, the table identifies:

- Whether the studies reviewed for that intervention measured the outcome
- Whether the intervention was found to produce a measurable positive impact on the outcome
- Whether the impact persisted for 6 months or more
- Any additional details that could clarify the evidence behind the intervention's impact on the outcome

This chapter also includes additional findings from studies that may be relevant for mental healthcare professionals to consider when addressing the needs of individual clients, but these outcomes did not count towards the rating of the study or program. It also identifies limitations in evidence and describes the need for further research to strengthen the evidence on programs intended to treat youth with suicidal thoughts and behaviors.

See Appendix 2 for more information about the evidence review process.

CAUSAL EVIDENCE LEVELS



Strong Evidence

Causal impact demonstrated by at least **two** randomized controlled trials, quasi-experimental designs, or epidemiological studies with a high or moderate rating.



Moderate Evidence

Causal impact demonstrated by at least **one** randomized controlled trial, quasi-experimental design, or epidemiological study with a high or moderate rating.



Emerging Evidence

No study received a high or a moderate rating. The practice may have been evaluated with less rigorous studies (e.g., pre-post designs) that demonstrate an association between the practice and positive outcomes, but additional studies are needed to establish causal impact.

Identification of Programs Associated with Treatment of Suicidal Ideation, Self-Harm, and Suicide Attempts Among Youth

Dialectical Behavior Therapy (DBT)



Strong Evidence

Overview

DBT is a manualized, cognitive-behavioral treatment that includes concurrent individual therapy, family therapy, multifamily skills training, and telephone coaching. DBT therapists hold regular team consultation meetings to address treatment adherence, continue training, and manage caseloads and potential burnout. DBT was designed for treatment of adult patients with chronic suicidal ideation diagnosed with borderline personality disorder (BPD). Emotional dysregulation caused by BPD can result in self-harm and suicidal behaviors. ¹⁻² The goal of DBT is to help individuals develop more effective behavioral, emotional, and interpersonal patterns. ¹⁻² DBT emphasizes the development of four skills:

- 1. Mindfulness
- 2. Interpersonal effectiveness
- 3. Emotion regulation
- 4. Distress tolerance

Emotional dysregulation is the inability to flexibly respond to and manage emotions.

Adolescents with symptoms of BPD exhibit frequent suicidal ideation or behavior, and suicide attempts are common.³ DBT was adapted for adolescents due to the treatment's effectiveness with suicidal behaviors in adults.⁴ The intervention also focuses on retaining clients in treatment, which research shows is a challenge for youth experiencing suicidal thoughts and behaviors.⁵⁻⁶

As adapted for adolescents, DBT focuses on treating youth with repeated self-harm and symptoms of BPD, many of whom also meet the Diagnostic and Statistical Manual of Mental Disorders (DSM–5) diagnostic criteria

for depression and other mental disorders. It includes parents in treatment through multi-family group skills training and some family sessions. These adaptations tailor the adult version for the adolescent developmental stage and typically include youth ranging from 12 to 18 years old.

This review included eight studies conducted in outpatient settings with adolescents.^{3,5-13} While the overall treatment approach was similar across studies, the two randomized controlled trials (RCTs) used slightly different variants of DBT, with one study using a sample of youth with more severe needs and a longer treatment duration.⁵ It is important to note that the outcomes below are from implementing the full treatment package, which can be challenging to sustain in a community setting.

Outcomes Associated with DBT

Studies included in this evidence review demonstrated that use of DBT for youth with suicidal thoughts and behaviors was associated with reductions in one or more of the following outcomes:

- Suicidal ideation
- Self-harm (non-suicidal)
- Self-harm (intent unknown)
- Suicide attempts

The studies included several additional outcomes, including improvement in BPD, reduced psychiatric hospitalizations, reduced depressive symptoms, and improved treatment completion rate.^{3,5-13}

Typical Settings

DBT has shown efficacy when delivered in an outpatient setting and has been implemented in community clinics serving primarily ethnic minority youth with low income. Some data also support particular benefits among non-white youth and Latino youth. However, DBT has been used with promising results in a wide range of settings, including intensive outpatient programs, regular outpatient care, and psychiatric inpatient units.

Of the studies reviewed, two were conducted in Norway, ^{6,8,10} two in Germany, ^{3,12} one in Canada, ⁹ and three in the United States. ^{5,7,11}

Demographic Groups

DBT is intended for use across all sexual and gender identities, races, and ethnicities. All DBT studies included in this review comprised adolescents aged 12 to 19. Participants were predominately female. The criteria for participant inclusion varied across all reviewed studies. However, common criteria were:

- 1. Suicidal thoughts or behavior
- 2. Meeting at least two criteria of BPD or having a previous diagnosis of BPD

Exclusion criteria varied greatly across the studies reviewed. Some of the common exclusion criteria were different severities of mania and psychosis, as well as substance use and eating disorders.

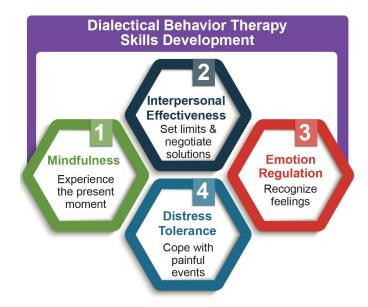
Practitioner Types

DBT can be delivered by mental health practitioners, including licensed behavioral health professionals such as psychiatrists, psychologists, and therapists. At least one study included post-doctoral students, psychiatry fellows, and graduate students as DBT practitioners, in addition to licensed therapists and clinical workers.¹¹

Intensity and Duration of Treatment

The two variants of DBT tested in RCTs varied in duration. One was 19 weeks and the other was 6 months.⁵⁻⁶ The frequency of DBT for adolescents includes one weekly individual session, weekly 2-hour multifamily groups, and some family sessions. Individual sessions last 1 hour. Telephone coaching for adolescents and parents is also available, 24 hours every day.

Finally, DBT training is offered free via SAMHSA's Technology Transfer Centers. More information on training resources can be found in Chapter 3.





Programs that Show Promise

Research on youth suicide treatment programs is relatively new and more research is needed. Prior to 2012, no programs had strong evidence to support their effectiveness in youth. ¹⁵ Although the body of research is growing, providers continue to face the challenge of limited evidence, particularly from RCTs, when selecting programs to treat suicidal thoughts and behaviors in youth.

There are many reasons for this research gap.

Researchers may not be able to ethically assign youth to a no-treatment or treatment-as-usual group if the intervention being studied is potentially lifesaving.

Another reason is that with a relatively uncommon outcome, such as suicide attempts, an RCT may not be able to enroll enough youth to see a statistical improvement, even if the treatment works. For these reasons, providers may want to consider programs that have been studied and show promise of effectiveness, but for which multiple RCTs are currently unavailable.

The remainder of this chapter includes five programs that are rated moderate:

- Attachment-Based Family Therapy
- Multisystemic Therapy-Psychiatric
- Safe Alternatives for Teens and Youth
- Integrated Cognitive Behavioral Therapy
- Youth Nominated Support Team Intervention for Suicidal Adolescents-Version II

Each program has shown positive study outcomes and received a moderate rating after undergoing the evidence review process. Technical experts agree that these programs include key elements important for treatment of suicidal thoughts and behaviors. However, they have various limitations in their current evidence base, such as:

- Program has not yet been studied in multiple RCTs
- Findings of subsequent RCTs are not yet published
- Multiple RCTs have been conducted for other outcomes, but not yet for suicidal thoughts and behavior

This information is important at a time when additional research is needed, youth suicide rates are rising, and relatively few programs are available for youth that have demonstrated well-established effectiveness for treating suicidal thoughts and behaviors.



Attachment Based Family Therapy (ABFT)



Moderate Evidence

Overview

ABFT is a manualized family therapy model specifically designed to treat depression and suicidal thoughts and behaviors in adolescents. ¹⁷ ABFT seeks to protect adolescents against suicidal ideation and risk behaviors by improving family processes and repairing or building secure parent-child bonds. ¹⁸⁻²⁰

ABFT is designed to be structured while also being flexible enough to address the unique challenges each family brings to treatment. The ABFT treatment manual outlines five sequential tasks the therapist will lead the client and family through during the course of treatment. To accomplish each task, the practitioner employs a primarily process-oriented, emotion-focused approach, using strategies identified for each. Each task builds on the one preceding it, leading to the desired treatment outcome. Multiple sessions may be necessary depending on the needs of the adolescent and caregivers. Initial sessions focus on repairing or building attachment bonds, and later sessions focus on promoting adolescent autonomy. On the sessions focus on promoting adolescent autonomy.

This review included three rigorous studies conducted in outpatient treatment facilities with adolescents scoring above a threshold on validated measures for suicidal ideation, depression, or both. 17-18,22-23 Studies of ABFT have demonstrated an impact on severity of suicidal ideation but not suicidal behavior.

Typical Settings

ABFT can be administered as either an inpatient or outpatient treatment. Typical settings for conducting treatment include the family home, hospitals, outpatient clinics, community-based organizations, group or residential care facilities, and schools.²⁴ All studies included in this review administered ABFT as outpatient treatment in a research clinic setting.^{17-18,22-23}

ABFT's Five Treatment Tasks¹⁸

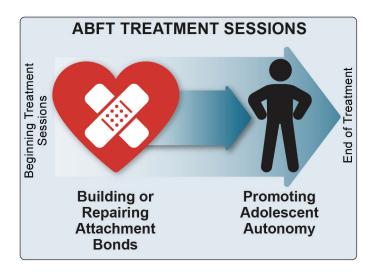
- 1. Relational Reframe Task
- 2. Adolescent Alliance Task
- 3. Parental Alliance Task
- 4. Attachment Task
- 5. Autonomy Promoting Task

Demographic Groups

ABFT is designed to treat youth aged 12 to 25 and engages family members of all ages in treatment. The treatment has been useful for adolescents with diverse gender, sexual, racial, and cultural identities, in addition to adolescents with a history of sexual abuse.²⁵

The studies in this review include two primarily female, African American samples, as well as a sample comprised entirely of racial and ethnic minority adolescents with low income who identify as lesbian, gay, or bisexual. All studies excluded youth with current psychosis or severe cognitive impairment. For purposes of research methodology (not clinical purposes), RCTs enforced additional exclusion criteria, including:

- Imminent risk of harm to self or others that could not be safely treated on an outpatient basis
- Participating parent who was non-Englishspeaking
- Treatment with psychotic medication within 3 weeks of the initial pretreatment screening^{17-18,22-23}



Practitioner Types

ABFT practitioners are typically licensed and possess a minimum of a master's degree in the mental health field. If a therapist is not licensed, he or she must be practicing under a supervisor's license at their organization. ABFT has been used in teams with co-practitioners who have an undergraduate degree.

Practitioners participating in this review's studies were doctoral or master's level therapists trained and certified in ABFT.^{17-18,22-23}

Intensity and Duration of Treatment

ABFT is designed to last approximately 12 to 16 weeks and span 10 to 20 sessions.²¹ In practice, therapists have adapted the model to fit the context and families with whom they work. The studies included in this review lasted from 12 to 16 weeks and averaged 8 to 12 sessions.^{17-18,22-23}

Findings

Outcomes

Some studies included in this evidence review demonstrated that use of ABFT for youth with suicidal thoughts and behaviors was associated with reductions in:

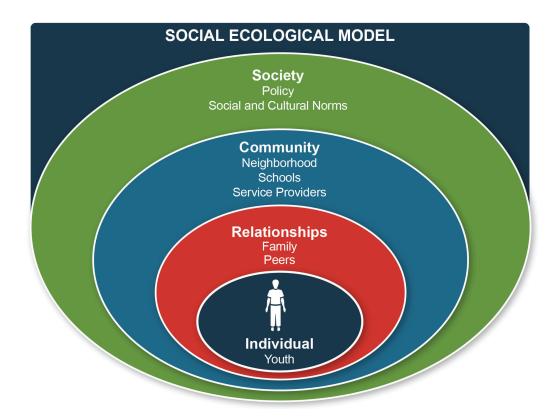
Suicidal ideation

Studies also demonstrated improved outcomes related to treatment retention, reduced depressive symptoms, and improved attachment-related anxiety and avoidance.^{17-18,22-23}

Limitations

One of the studies included suicide attempts as an outcome. Although there were fewer suicide attempts in the group receiving ABFT than in the group receiving treatment as usual, the difference was not statistically significant.²³ The studies did not measure self-harm (non-suicidal or intent unknown) outcomes.

Additional studies with self-harm and suicide attempt outcomes could improve understanding of ABFT's impact on suicidal behaviors.



Multisystemic Therapy-Psychiatric (MST-Psych)



Moderate Evidence

Overview

MST is an intensive manualized treatment developed for youth aged 12 to 17 with serious antisocial behavior, most of whom have had involvement with the criminal justice system. When the childhood disorder most associated with antisocial behaviors, have a greater rate of suicide attempts compared to youth without conduct disorder. MST provides a useful approach in that it draws from the social-ecological theory of human development, which emphasizes that treatment must address the strengths and challenges of the systems with which youth interact (e.g., family, peer, school, larger society). The social-ecological theory recognizes that all of these systems affect youth, and that youth, in turn, affect many different systems.

MST-Psych is an adaptation of MST specifically designed for adolescents with high-risk symptoms, such as suicidal, self-injurious, and aggressive behavior.²⁹ Treatment focuses on improving caregiver and family functioning and working with the family to address risk factors present in the systems with which the adolescent interacts.²⁹

Some studies have demonstrated MST-Psych's effectiveness in reducing serious behaviors, such as violence, substance use, and criminal activity. One of these studies examined the use of MST-Psych with youth aged 10 to 17 presenting for emergency hospitalization for suicidal intent/planning, attempted suicide, homicidal ideation or behavior, psychosis, or other threat of harm to self or others.

Typical Settings

MST-Psych has been used in both home- and community-based settings.³⁰ Most families receive services for 3 to 6 months, although there is no defined length of treatment.²⁸

Demographic Groups

MST-Psych was developed for youth between the ages of 12 and 17. The majority of participating youth were African American and male.²⁹

Practitioner Types

MST-Psych involves teams of therapists, each of whom must possess master's level training in a clinical field, and at least one of whom must be an advanced master's or doctoral level supervisor.³¹ All MST-Psych practitioners must complete a minimum 5-day orientation program, and additional training is required for specialized MST-Psych adaptations.³¹

Intensity and Duration of Treatment

MST-Psych therapists have a very small caseload of families, which allows them to be available to the youth and family multiple times per week.²⁶ For this reason, MST-Psych is a very resource-intensive therapy. Most families receive services for 3 to 6 months, although there is no defined length of treatment.²⁸

Findings

Outcomes

The study included in this evidence review demonstrated that use of MST-Psych for youth with suicidal thoughts and behaviors was associated with reductions in:

Suicide attempts

Youth who received home-based MST-Psych experienced a greater reduction in suicide attempts at 1-year follow-up compared to youth assigned to inpatient hospitalization. However, youth in the MST-Psych group had a history of more suicide attempts on average than did youth in the hospitalization group. This difference may have affected the study results.²⁸

Limitations

MST-Psych did not demonstrate a reduction in suicidal ideation. The study did not measure self-harm (non-suicidal or intent unknown) outcomes.

Additional studies that are focused on suicidal ideation, self-harm, and suicide attempt outcomes could strengthen the body of evidence for use of MST-Psych in treating suicidal thoughts and behaviors.

Safe Alternatives for Teens and Youth (SAFETY)



Moderate Evidence

Overview

SAFETY is a 12-week family-oriented treatment designed to build skills, increase safety, and reduce risk of suicide attempts. This cognitive-behavioral program is informed by DBT and grounded in social-ecological theory. It enhances protective factors and reduces risk factors within individual youth, family, and other social systems.

Elements of SAFETY include:

- 1. Youth work with one therapist while parents simultaneously work with a different therapist
- 2. Youth and family come together to practice skills identified as important to prevent repeat suicide attempts³²⁻³³

When the family is not available or involvement of the young person's parents is not feasible or otherwise inadvisable, the therapist may include other protective adults in treatment

The 12-week SAFETY program builds upon an emergency intervention called SAFETY-Acute (SAFETY-A), initially described in the literature as Family Intervention for Suicide Prevention (FISP).³⁴⁻³⁵ When delivered with community

treatment as usual, SAFETY-A/FISP has demonstrated benefits for improving continuity of care after an emergency department (ED) visit for suicidal ideation and behavior, with some data supporting benefits on suicidal ideation at discharge from the ED.³⁵⁻³⁶

Findings

Outcomes

Studies included in this evidence review demonstrated that use of SAFETY for youth with suicidal thoughts and behaviors was associated with reductions in:

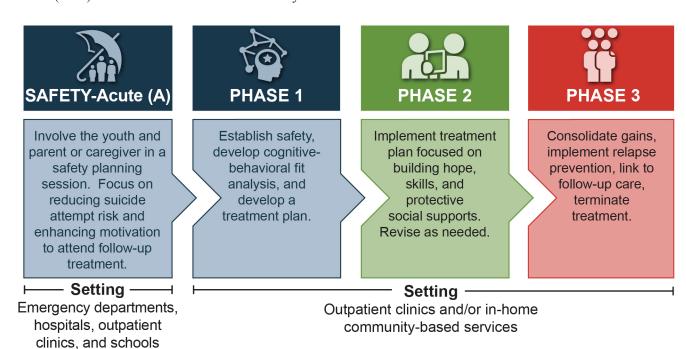
- Suicidal ideation
- Self-harm (non-suicidal)
- Suicide attempts

One of the studies demonstrated significant reductions in depression and hopelessness for youth and significant reductions in depression for parents involved in the intervention.³³

Limitations

The RCT included in the evidence review did not find statistically significant improvements in non-suicidal self-harm.³² The studies reviewed did not measure self-harm (intent unknown) outcomes.

The inclusion of more gender diverse youth would improve SAFETY's evidence base.



SAFETY-A is included as the first session in the full SAFETY program and emphasizes a developmentally nuanced, trauma-informed, family-centered, and strengths-based approach to safety planning. Upon conclusion of the SAFETY program, the therapist links youth and families to follow-up services and resources to encourage ongoing care.

Typical Settings

SAFETY is a community-based treatment conducted in outpatient settings and/or the client's home. It provides treatment after a suicide attempt or recent, repeated clinically significant self-harm, and is often used for youth with recent emergency, hospital, or crisis visits for suicide attempts and/or self-harm.

Demographic Groups

The program is designed for adolescents aged 11 to 18 and their families. The youth included in the studies had a recent suicide attempt or repeated self-harm as their primary problem. In the studies reviewed, participants were primarily female and represented diverse subgroups across racial, ethnic, socioeconomic, and sexual orientation categories.

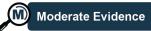
Practitioner Types

The SAFETY program is delivered by mental health therapists, including psychologists and social workers.

Intensity and Duration of Treatment

The program is designed to be implemented in 12 weeks. Phase 1 includes three weekly sessions, with an option to increase the number of sessions per week if indicated based on safety risk. The number of sessions varies across participants in Phases 2 and 3. In the studies reviewed, youth received an average of 10 sessions.

Integrated Cognitive Behavioral Therapy (I-CBT)



Overview



I-CBT uses cognitive, behavioral and affect regulation training to address suicidal behaviors and cooccurring substance use disorders among adolescents, as well as common comorbid conditions

(e.g., depression, conduct problems) that may interfere with treatment progress. The intervention extends 12 months and consists of three treatment phases involving individual, family, and parent training sessions.³⁷

A key component of I-CBT for suicide treatment is that it targets common thought processes and behaviors that underlie substance use disorders, suicidal thoughts/behaviors, and comorbid mental health conditions. I-CBT provides a framework for teaching youth the skills needed to develop self-efficacy to manage their emotions, challenge negative thoughts, solve problems, and communicate effectively. Parents play a significant role in treatment. They learn skills to aid in their adolescent's recovery and promote supportive family relationships, such as problem-solving, communication, emotional regulation, and monitoring.

I-CBT has been further adapted by its creators to a program called Family-focused Cognitive Behavioral Therapy (F-CBT) based on clinical impressions during the I-CBT study and emerging research.³⁸ Additional session focus areas were added to accommodate a more heterogeneous sample of youth experiencing suicidal



thoughts or behaviors. Parental involvement and support were expanded by adding parental "self-care" sessions and an emotional coaching session to improve parent-child interactions.³⁸

This review included a study that tested the efficacy of I-CBT in a highly controlled setting.³⁷ The study was conducted with participants who had experienced recent suicidal ideation or a suicide attempt and had co-occurring alcohol and/or cannabis use disorder.

Typical Settings

The study was conducted in an outpatient setting. However, based on the widespread use of traditional CBT, the intervention may be suitable for use in other settings.

Findings

Outcomes

Studies included in this evidence review demonstrated that use of I-CBT for youth with suicidal thoughts and behaviors was associated with reductions in:

Suicide attempts

The study also demonstrated reductions in the frequency of marijuana use and heavy drinking days, as well as in the number of inpatient hospitalizations, ED visits, and arrests.

Limitations

I-CBT did not demonstrate a reduction in suicidal ideation. The study did not measure self-harm (non-suicidal or intent unknown) outcomes.³⁷

To improve the field's understanding of I-CBT's effectiveness, additional studies should be conducted to:

- Observe the treatment in a variety of settings
- Include more racially, ethnically, and gender diverse youth
- Establish stronger findings across multiple suicide outcomes (i.e., suicidal ideation, self-harm, and suicide attempts)

Demographic Groups

The I-CBT study included participants ages 13 to 17 recruited from a psychiatric inpatient unit who made a suicide attempt within the past 3 months or reported clinically significant suicidal ideation during the past month on a standardized questionnaire and had an alcohol and/or cannabis use disorder. The majority were White and female and met the diagnostic criteria for either alcohol use disorder and/or cannabis use disorder. Participants also needed to live in a home with a parent or guardian who was willing to participate.

Participants were excluded if they had a Verbal IQ estimate less than 70, were actively psychotic, were homicidal, had bipolar disorder, or were dependent on substances other than alcohol and marijuana.

Practitioner Types

In the study included in this review, sessions were delivered by therapists, including doctoral-level practitioners, licensed clinical psychologists, clinical psychology postdoctoral trainees, and a master's level clinician.

Intensity and Duration of Treatment

The intervention extends 12 months. Participants completed an average of 46 sessions (range of 11 to 72 sessions), including individual and family therapy and parent training sessions.



Youth Nominated Support Team Intervention for Suicidal Adolescents– Version II (YST-II)



Moderate Evidence

Overview



YST-II is a psychoeducational social support program designed for adolescents hospitalized in a psychiatric unit who have recently reported a suicide attempt or serious suicidal ideation.

As a key component to suicide prevention, the intervention supplements routine treatment by strengthening existing adolescents' support networks through increasing support from caring adults. Adolescents nominate several adults (typically three to four per adolescent from family, school, and/ or community settings) to serve as their support persons after hospitalization.³⁹ These adults attend psychoeducational sessions to learn about:

- The adolescent's psychiatric disorder(s) and psychosocial difficulties
- The adolescent's treatment plan and rationale for recommended treatments
- Risk factors for suicidal behavior and warning signs of possible acute risk
- Strategies for communicating with adolescents
- Availability of emergency services (e.g., crisis lines, EDs)

The adults receive weekly, supportive telephone calls from YST-II staff for 3 months.

In their regular contacts with adolescents, the youth-nominated caring adults:

- Support the young person's involvement in healthy activities
- Inquire about and listen to the adolescent's concerns to engage in collaborative problemsolving
- Support treatment adherence and express hopefulness about the possibility of positive change³⁹

Demographic Groups

In the study reviewed, participants included youth aged 13 to 17 with significant suicidal ideation or a suicide attempt within the past 4 weeks. Most participants were White, and three quarters were female. Approximately 20 percent had a co-occurring alcohol or substance use disorder. Socioeconomic status and parental education varied among participants.

Participants were excluded if they had extreme cognitive impairment, were directly transferred to a medical unit or residential placement, or had no legal guardian available.

Findings

Outcomes

The study included in this evidence review demonstrated that use of YST-II for youth with suicidal thoughts and behaviors was associated with reductions in:

Suicidal ideation

YST-II resulted in more rapid decreases in suicidal ideation for youth with multiple suicide attempts during the initial 6 weeks after hospitalization. For those without multiple attempts, it was also associated with greater declines in functional impairment at 3 and 12 months.³⁹

The study found youth who received YST-II attended more outpatient therapy and medication follow-up sessions and were more likely to participate in outpatient drug or alcohol treatment in the 12 months following their initial hospitalization.

Limitations

YST-II did not demonstrate a reduction in suicide attempts. The study did not measure self-harm (non-suicidal or intent unknown) outcomes.

Additional studies with stronger findings across multiple suicide outcomes (i.e., suicidal ideation, self-harm, and suicide attempts) and the inclusion of more racially, ethnically, and gender diverse youth would strengthen the field's understanding of YST-II's effectiveness.

Practitioner Types

YST-II intervention specialists include mental health professionals (e.g., doctoral-level psychologists, master's level social workers, and psychiatric nurses).

Intensity and Duration of Treatment

The caring adults participate in 1-hour individual or group psychoeducational sessions and maintain weekly telephone contact with the intervention specialist. The adults are encouraged to have weekly contact with the adolescents for at least 3 months following hospital discharge. In the study reviewed, the adults were in contact with clients an average of 9.5 times over 3 months. The length of contacts between the caring adults and adolescents is not prescribed.

Long-Term Outcomes on Self-Injury Mortality

The secondary analysis conducted more than a decade later found YST-II was associated with a reduction in mortality across all causes of death and a reduction in self-injury mortality due to either suicide or drug-related deaths with unknown intent.⁴⁰

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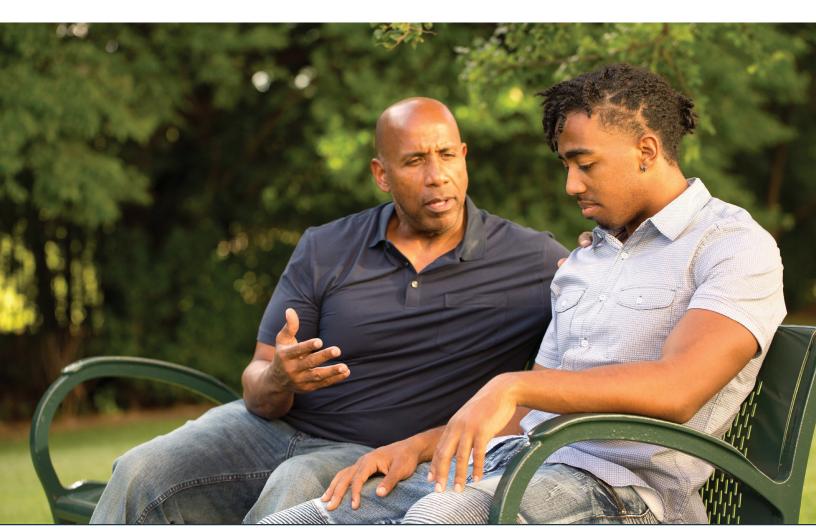
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Guidance for Selecting and Implementing Evidence-based Programs

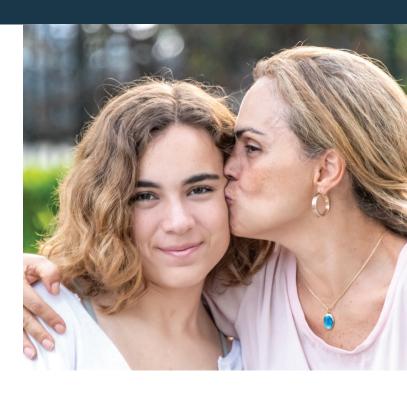
This chapter provides information for clinicians, program administrators, and other stakeholders interested in implementing evidence-based programs to treat suicidal ideation, self-harm, and suicide attempts among youth. The chapter:

- Reviews the steps to implementing a new program
- Identifies common elements of effective programs to treat suicidal thoughts and behaviors
- Includes key program selection and implementation considerations and strategies
- Provides implementation resources for the treatment programs described in Chapter 2

Implementation of Evidence-Based Programs

A number of general frameworks and guidelines provide insight into how to implement new programs and practices.¹⁻² A comprehensive youth suicide treatment program planning and implementation process typically includes the following steps:

1. Plan: Identify populations of focus, current treatment gaps, and internal capacity to implement a new program through an organizational readiness and needs assessment process. This process should include a review of qualitative and quantitative data and budget requirements.



- 2. Engage Youth with Lived Experience: Within the limits of the program, practitioners should involve youth suicide attempt survivors and young people with a range of relevant lived experience, including graduates of treatment programs, as an integral resource and voice to inform the implementation, adaptation, and evaluation of programs. Provide leadership roles for youth to serve on agency boards of directors and community councils, as appropriate.
- 3. Build Buy-in and Capacity: Communicate goals and expectations, facilitate understanding about program theory and build support among staff. Select and train staff and supervisors to support implementation of the new program. Offer trainings to new staff and booster training or coaching sessions for existing staff to enhance skills.
- **4. Implement:** Pilot test the program and refine, if needed, before scaling up to full implementation.
- **5. Evaluate:** Monitor practice change and quality of program delivery through observation, staff input, and data. Evaluate the implementation process and assess whether the program is achieving the desired outcomes (see details in Chapter 5).



Common Elements of Effective Treatment Programs

The evidence base for treatment of suicidal ideation, self-harm, and suicide attempts continues to emerge. There is no one-size-fits-all treatment approach. Care should be taken to select the program that best fits the characteristics and needs of the youth who will be served.

Regardless of the specific program selected, this guide's review of relevant research and discussions with content experts identified a set of common elements that should be strongly considered prior to treatment and within treatment programs:

- Comprehensive assessment to inform treatment
- Safety planning
- Family involvement in separate or joint sessions
- Coping skills training to match needs identified in the assessment
- Promotion of continuity of care



Prior to initiating treatment or during the first sessions, a comprehensive clinical assessment or history of a client's thoughts, behaviors, mood, previous suicide attempts, trauma, health history, and home life should be completed using a structured or semi-structured approach (e.g., using a combination of assessment tools and/or clinical interviews). This initial assessment can assist providers in identifying suicide risk, determining appropriate next steps, and tailoring specific treatment modules to meet specific needs. Clinicians should also

regularly administer one or a sub-set of brief tools based on the patient's presenting problems to track the youth's progress over time and adjust the treatment plan accordingly, consistent with measurement-based care.³

Measurement-based care is the systematic administration of symptom rating scales and use of the results to drive clinical decision making at the level of the individual patient.³

An example of a free assessment tool for identifying youth at risk for suicide during an initial assessment is the Ask Suicide-Screening Questions (ASQ) Toolkit.⁴ HealthMeasures includes PROMIS® and the NIH Toolbox®, two free comprehensive sets of neurobehavioral measurements that assess a broad range of symptoms and risk and resilience factors that could be used at intake and to monitor patients over time.⁵

The Collaborative Assessment and Management of Suicidality (CAMS) is a therapeutic framework in which the client and provider work together to assess the client's suicidal risk and use that information to plan and manage suicide-specific treatment. CAMS is a widely used intervention but it's efficacy for youth has not been tested. CAMS incorporates the Suicide Status Form (SSF) to assess the client and guide the development of a treatment plan. The SSF has been validated for use with youth aged 12 to 17.6

SAFETY PLANNING

Safety planning is an essential intervention and component of an evidence-based treatment approach. Research has shown that individuals who receive safety planning are less likely to experience suicidal behavior, less likely to be hospitalized in the following year, and more than twice as likely to receive mental health services.⁷ A safety plan is a prioritized list of coping strategies and sources of support that youth can use before or during a suicidal crisis and is often completed before starting treatment and/or during the first session. Safety plans are based on clear communication and a collaborative relationship between the client and provider, and are differentiated from previously used safety contracts – which the evidence has found are not effective – by including clear direction and support for addressing a suicidal crisis. Clinicians should collaborate with youth and their parents (if it is safe and appropriate to involve the family) at the beginning of a treatment program to develop a safety plan that is brief, in the youth's own words, and easy to read.8-9

Parents or other adult family members should also receive instruction on how to monitor for suicidal thoughts and behavior, recognize warning signs, and support their child in using the safety plan. In addition, parents should be taught when, where, and how to access emergency care for their child when needed. For individuals at higher risk, safety plans should be revisited over the course of treatment.

Clinicians should also counsel the youth's family on ways to reduce access to lethal means, such as removing firearms, medications, or sharp objects from the home. Counseling on Access to Lethal Means (CALM) is one example of a training resource for clinicians in this area.¹⁰



Involving parents, caregivers, or other supportive adults in the youth's treatment program can help strengthen a youth's support system, increasing the youth's help seeking behaviors and creating positive interpersonal relationships. The literature shows that different aspects of family life and relationships can serve as either risk or protective factors for suicide and self-harm. Separate parent or integrated family sessions may focus on emotional regulation, improving communication, parent monitoring, and resolving family conflicts that have strained the parent-child bond.

When involving family, some programs use two therapists throughout the treatment process, one focused on the adolescent and one focused on the parents or caregivers.



Skills training during treatment involves youth learning, practicing, and applying a variety of coping skills that help youth better navigate everyday challenges and stressors. Skills training sessions may focus on emotional regulation, distress tolerance, cognitive restructuring, communication skills, help seeking, problem-solving, and/or conflict resolution.¹¹

This training should be calibrated with what put that youth at risk for suicide. For example, if an adolescent male client tends to experience suicidal thoughts after interpersonal conflicts with his friends, parents, and significant other, a clinician might prioritize different coping skills than for an adolescent female who suffers from perfectionism, anxiety, depression, and feelings of failure.



After acute treatment, it is important to consider additional treatment and service (e.g., mental health, health, school, housing, transportation) needs. Treatment that employs a collaborative approach that links the adolescent, as well as their family, to primary health care, behavioral health care, or community and school services and supports, can help engage and motivate the adolescent. This can increase retention in therapy and decrease suicidal thoughts and behavior.¹¹

Addressing barriers to care can also be helpful. Research shows that individuals experiencing suicidal thoughts and behaviors are less likely to initiate treatment, to attend only a few sessions, or to drop out of treatment

early. ¹² Continuity of care strategies can improve connectedness, motivation, and treatment adherence, which help prevent future episodes of suicidal behaviors, and, in turn, relapse. Relapse prevention strategies also include enhancing youths' self-esteem, autonomy, and resilience to distress, as well as avoiding alcohol and other drugs. ¹³⁻¹⁴

Standard care for youth should include brief, non-demanding, repeated caring contacts expressing care, interest, and support following discharge. A case manager who provides assistance and follow-up support, especially during times of transition, can also assist with other psychosocial needs (e.g., paperwork related to housing or education) that impact suicidal thoughts and behavior but are not typically the focus of mental health interventions. Case managers should work with schools and campus counseling offices to engage clinical support in learning environments.

Considerations When Selecting and Implementing Programs to Treat Suicidal Ideation, Self-Harm, and Suicide Attempts

When selecting and implementing optimal interventions to address suicidal thoughts and behaviors, there are several potential factors to consider, including:

- Treatment fidelity
- Adaptation of programs
- Treatment adherence and retention in care
- Program sustainability

These factors are described in detail below, along with recommended strategies to achieve optimal implementation.

Treatment Fidelity

Consideration: Fidelity is the extent to which a practitioner adheres to the core components of the program and is crucial to reaching desired outcomes. ¹⁵ For youth experiencing suicidal thoughts and behaviors, this consideration is particularly important given that lack of improvement could result in an attempt or death by suicide.

Strategies:

- Monitor fidelity over time For even the most experienced clinicians, suicide can be one of the most uncomfortable and challenging presenting problems to address with clients. Without ongoing efforts to maintain it, initially high treatment fidelity can diminish, even after only a few weeks following initial implementation of a program. ¹⁵
 - Many programs in this guide have fidelity measures that can be implemented either as a self-assessment tool, or, if funding is available, by external expert evaluators. Practitioners should also frequently refresh their knowledge of the program by attending trainings, webinars, and other continuing education opportunities.
- Ensure the organizational environment supports fidelity Organizations can support treatment fidelity by examining their existing systems and environment to determine whether they enable staff to carry out the program as intended. The organization must have the infrastructure needed to support correct use of evidence-based treatment, reduce clinician burden, and prevent burnout.
 - Considerations may include current program offerings, the level of staff education, client characteristics, client intake processes, funding sources, the ability of clinicians to see clients on a regular basis (e.g., once a week or more often depending on the treatment selected), and time for clinicians to further study the treatment modules and prepare for each session. It is important for the organization and leaders to acknowledge how challenging it is to work with suicidal clients and to be transparent about the fidelity monitoring process.
- Develop in-house expertise It is often advantageous for an organization to select staff to undergo supervision, trainings, and certification. In-house training and clinician supervision groups make professional development more easily accessible, help prevent burnout, and ensure continued treatment fidelity over time. They can also help ensure a built-in support system and more attention to self-care for clinicians working with youth experiencing suicidal thoughts or behaviors.

Adaptation of Programs

Consideration: While maintaining program fidelity is critical to achieving desired outcomes, certain elements of a program may not be appropriate or feasible to implement in specific contexts. Successful program implementation often requires adapting a program so it is better suited for a particular population, program setting, or organization.

Strategies:

• Develop a plan for adaptations - Practitioners and program administrators should plan adaptations in advance to ensure core components of the program or practice are maintained and fidelity is not compromised. When possible, they should consult with the treatment developers for guidance on adaptations. They should also seek input from program stakeholders, including participants, and monitor program data to ensure the program is still achieving desired outcomes. Depending on the degree of adaptation of the originally validated intervention, the new version may or may not be as effective – which underscores the need for continued evaluation.

ADAPT-ITT, consisting of eight sequential phases, is a systematic framework for adapting evidence-based interventions. ¹⁶ While it was initially designed for HIV-related interventions, the general process is applicable to many other types of programs.

 Adapt the program to better serve the population of focus - The most commonly cited reasons organizations adapt a program are for ensuring cultural competency and addressing a new population of focus.¹⁷

Cultural adaptions - Program implementers should consider how to tailor treatments to be compatible with the clients' cultural patterns, meanings, and values.¹⁸ To make a program more culturally appropriate, it is important to consider the preferred language, values, attitudes, beliefs, practices, and experiences of the cultural groups served.

For example, interventions for Native American youth experiencing suicidal thoughts or behaviors may need to address cultural beliefs and incorporate Native-specific language for the concept of suicide, as well as the importance of and ways to promote wellness.

Adaptations for LGBTQ youth - LGBTQ youth are youth who identify as lesbian, gay, bisexual, transgender, queer, or who are currently questioning their sexual orientation or gender identity. Programs may need to be adapted to better address the additional challenges that LGBTQ youth face. ¹⁹



THE EIGHT STEPS OF THE ADAPT-ITT MODEL



Assessment: conduct an assessment to understand the population of interest and organization-level capacity to implement the intervention



Decision: select the intervention



Adaptation: pre-test the intervention with the population of interest



Production: produce a revised draft of the intervention guide maintaining fidelity to the core elements, behavioral theory, and internal logic of the initial intervention



Topical experts: engage subject matter experts in a review of the intervention guide produced in Production step



Integration: integrate feedback from the Topical experts and Production steps, and produce a second draft



Train: train facilitators, recruiters and retention staff, interviewers, and data management staff to ensure consistent implementation and data collection efforts



Test: pilot test the intervention and integrate findings into a third draft. Conduct a second pilot test to determine if the intervention will be effective in the organization's service delivery area and with the population of interest

For programs that incorporate families into treatment, the practitioner will first need to ask the youth whether their parents know about their gender identity and/or sexual orientation. Second, if parents are aware, they will need to assess how the parents responded to this information and determine how the family is currently interacting around issues related to gender identity and/or sexual orientation. With this information in mind, clinicians can then implement interventions to reduce suicidal thoughts and behaviors while ensuring they do not result in further stigmatization and rejection of gender and/or sexual minority youth by their families.

• Consult Best Practices in Telehealth - Treating clients in-person is not always possible, especially in more rural regions that may have a shortage of behavioral health practitioners and during public health emergencies, such as the COVID-19 pandemic. Virtual treatment approaches may be more accessible and cost-effective.



When adapting programs to be delivered virtually, program administrators should consult best practices in delivering telehealth services, such as the American Telemedicine Association's Practice Guidelines for Video-Based Online Mental Health Services.²⁰ in addition to following the ADAPT-ITT framework or a similar model for adapting evidence-based programs. Clinicians should take extra precautions to ensure the safety of clients experiencing suicidal thoughts or behaviors when receiving treatment virtually. Strategies for ensuring safety include developing a plan for how to contact emergency support while remaining on the line with the individual, asking for the client's location at the outset of the treatment session, and staving on the line with the client until care arrives if risk is imminent.²¹ The interventions reviewed in this guide have not been evaluated with telehealth service delivery, and more research is needed to identify and address potential barriers and determine the effectiveness.

Treatment Adherence and Retention in Care

Consideration: The effectiveness of a program depends on the participant's adherence to the recommended treatment plan and retention in care.

Strategies:

- Engage youth as active partners in their own care - Practitioners should engage youth in collaborative treatment planning and goal setting and also engage the family when appropriate. Everyone should agree to expectations and responsibilities for the clinician and the participant.
- Assess adherence behaviors and potential barriers, such as low selfefficacy, stigma, financial concerns, and access to services - Once barriers are identified, clinicians should work with families to address immediate clinical concerns, such as low self-efficacy and stigma. Simultaneously, they can provide support to address other obstacles to care, including case management to access insurance, transportation

- to services, and referrals to social services. Application of problem-solving skills training and/or motivational interviewing can be helpful strategies for the clinician to use.
- Build a therapeutic alliance by demonstrating positive regard for the youth and family, showing empathy, and communicating clearly - Research suggests therapeutic alliance is a strong predictor of retention in treatment.22

Program Sustainability

Consideration: Implementation of treatment programs requires sustainable funding mechanisms. Estimates of implementation costs should include staff time and resources for planning, training, materials, technology needs, and service delivery. Clinicians may experience challenges receiving adequate reimbursement due to the longer duration of services needed to implement some of these interventions, as well as limited coverage for comprehensive components such as team-based care.

Strategies:

- Review insurance policies State Medicaid, the Children's Health Insurance Program, and private insurance policies differ in their requirements for reimbursement of behavioral health services, including diagnostic assessments, psychiatric care, psychotherapy, partial hospitalization programs, intensive outpatient programs, and family therapy. Reimbursement policies can be confusing and complex. Program administrators should seek and provide clarification around common billing concerns, such as same-day billing restrictions and billing for family therapy when the client with the presenting problem (e.g., youth with suicidal thoughts) is not present.
- Coordinate with state and local suicide prevention partners - State agencies and local organizations may have funding to provide training and technical assistance related to program implementation.²³⁻²⁴ For example, the Substance Abuse and Mental Health Services Administration supports state and local prevention efforts through the Garrett Lee Smith Suicide Prevention and the Zero Suicide grant programs.

Program Resources

In addition to the overarching implementation guidance provided above, several resources are available to help individuals and organizations implement the programs described in Chapter 2. Some of the programs have not been widely disseminated or implemented. The list below provides a sample of available resources for each program.

Dialectical Behavior Therapy

SAMHSA's <u>Technology Transfer Center Network</u> provides free training and resources on DBT.

DBT-Linehan Board of Certification oversees DBT certification and includes a directory of certified clinicians and programs. The site includes additional resources, such as book recommendations.

<u>Psychwire</u> offers online DBT training courses, free training videos, and a DBT newsletter.

Behavioral Tech, founded by the developer of DBT, Marsha Linehan, PhD, ABPP, provides comprehensive DBT information, categorizes global DBT research, and offers DBT training, certification, and consultation. The site also includes resources for children and families.

<u>Treatment Implementation Collaborative</u> offers DBT implementation assistance, as well as training, consultation, and supervision.

Attachment-Based Family Therapy

The <u>ABFT Training Program</u> at Drexel University's Center for Family Intervention Science provides a variety of resources, including an ABFT treatment manual, trainings to achieve ABFT certification, webinars, supervisor and trainer trainings to help organizations build internal capacity for implementation, and a free ABFT Dissemination and Implementation Starter Packet.

The <u>American Psychological Association</u> offers an online introductory workshop on ABFT for a nominal fee.

Multisystemic Therapy-Psychiatric

MST Services, founded by the Multisystemic Therapy (MST) developers, provides ongoing implementation support for organizations. Supports available from MST Services and its network of partners include:

development of a process to track key outcomes, semiannual program reviews and problem solving support, centralized MST database for collection of therapist and supervisor adherence to model and youth clinical outcomes, initial 5-day orientation and quarterly booster trainings, weekly consultation with an MST expert and MST psychiatrist expert, and supplemental trainings for MST–Psychiatric programs. The website includes free videos, fact sheets, and webinars.

Safe Alternatives for Teens and Youths

The UCLA-Duke Center for Trauma-Informed Adolescent Suicide, Self-Harm, and Substance Abuse Treatment and Prevention (ASAP Center) is part of the National Child Traumatic Stress Network. The ASAP Center offers information, trainings, and other resources for implementing Safe Alternatives for Teens and Youth (SAFETY) and SAFETY-Acute (SAFETY-A), also referred to as Family Intervention for Suicide Prevention. Available resources include: free webinars: manuals; tip sheets with clinical guidance; standardized patient case demonstrations; other training materials and resources for implementing components of these programs; and information on the development and evidence base for SAFETY and SAFETY-Acute. Information and resources can also be accessed through the Youth Stress & Mood Program within the Department of Psychiatry at the University of California Los Angeles.

Integrated Cognitive Behavioral Therapy

In this book chapter, the developers of I-CBT provide guidance on how to select treatment candidates for I-CBT, and a case study example of how to implement I-CBT: Esposito-Smythers, C., Spirito, A., & Wolff, J. (2019). CBT for co-occurring suicidal behavior and substance use (I-CBT). In M. Berk (Ed.) Evidence-Based Treatment Approaches for Suicidal Adolescents: Translating Science into Practice. American Psychiatric Publishing.

Youth-Nominated Support Team - Version II

The Youth and Young Adult Depression and Suicide Prevention Research Program at the University of Michigan's Department of Psychiatry provides information and resources related to Youth-Nominated Support Team – Version II, including access to the free intervention manual.

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Examples of Suicide Treatment Programs

This chapter highlights four examples of organizations that provide treatment services to address suicidal ideation, self-harm, and suicide attempts among youth. Each organization is implementing an intervention with strong or moderate support for causal evidence detailed in Chapter 2, including:

- Dialectical Behavior Therapy (DBT)
- Attachment-Based Family Therapy (ABFT)
- Safe Alternatives for Teens and Youth (SAFETY)
- Integrated Cognitive Behavioral Therapy (I-CBT)

This chapter does not include an example for Multisystemic Therapy-Psychiatric or Youth Nominated Support Team Intervention for Suicidal Adolescents-Version II. The chapter documents how each setting has implemented these treatment programs as part of a comprehensive strategy to address the needs of their populations. Programs should implement interventions with fidelity to evaluated models. Fidelity is the degree to which a program delivers a practice as intended and must be maintained for desired therapy outcomes. However, many programs, including those highlighted in this chapter, adapt chosen interventions to better serve their clients. As clinical providers and program administrators modify these interventions to address the needs and constraints of their population, budget, setting, and other local factors, they should adhere to the evidence-based program's foundational principles and core components.



The examples highlighted in this chapter were identified through an environmental scan and in consultation with subject matter experts. While there are additional programs that could have been featured in this chapter, the programs described below are considered representative examples of current adaptations of evidence-based treatment protocols for suicidal thoughts and behaviors and serve diverse populations of youth.

The examples detailed in this chapter:

- Include interventions identified in Chapter 2
- Can be replicated (are well-defined with guidance materials or a manual)
- Have preliminary evaluation data to show promise of impact on suicide-related outcomes
- Exemplify implementation in varying geographic areas, practice settings, and diverse populations



Indian Health Service – Desert Visions and Nevada Skies Youth Wellness Centers

Sacaton, Arizona and Wadsworth, Nevada

Desert Visions and Nevada Skies are residential treatment centers for American Indian/Alaska Native (AI/AN) youth aged 12 to 18. About one-third of youth present at intake with suicidal ideation or behavior. The centers offer a multi-disciplinary treatment approach that includes biopsychosocial, health, education, and cultural activities.

DBT-A is the primary treatment modality, with adaptations to incorporate cultural and spiritual practices, including talking circles, sweat lodges, smudging, and drumming. In addition, a Native American traditional spiritual counselor comes from the community weekly to provide traditional acupuncture and medicinal preparations.

The centers are owned and operated by the Indian Health Service (IHS), with about half of funding for the DBT-A program from the federal government and half from billing to private insurance plans.

Model Features and Elements

- Manualized (Rathus & Miller, 2014) 16-week DBT-A program is operated alongside with traditional healing practices.
- Youth receive individual therapy weekly, group therapy daily, and family therapy at least twice monthly.
- Family therapy is an integral part of treatment and takes place in-person when the family is located close to the facility or virtually if inperson meetings are not possible. However, multifamily skills groups have not been implemented due to feasibility issues in the residential setting.
- The centers employ full-time medical staff, 24-hour nursing support, and a medical director.
- All counselors (primarily master's level) complete a two-week intensive DBT training and receive weekly consultation.
- Training in the originally developed DBT (for adults) is readily available and provides a foundation for implementing DBT-A. Following

Program Implemented Dialectical Behavior Therapy for Adolescents (DBT-A)

Setting

Two residential treatment centers serving Al/AN youth aged 12 to 18 for a minimum of 120 days.

Population of Focus

Al/AN youth with a primary diagnosis of substance use disorder. Most youth have cooccurring diagnoses of depression, anxiety, eating disorders, serious mental illness, or conduct disorders.

Program Duration

Youth receive the 16-week DBT-A program as part of their residential stay of at least 120 days.

Related Resources

Program Website

- the two-week DBT training, counselors receive training specific to implementation with adolescents.
- Counselor aides and nursing staff also participate in DBT training.
- DBT mindfulness module incorporates cultural and spiritual practices, such as talking circles, sweat lodges, and smudging.
- Safety planning is conducted with youth at risk of harming themselves or others.
- Empirically supported, standardized measures are administered throughout the program.
- Columbia-Suicide Severity Rating Scale,² Youth Outcome Questionnaire-SR (YOQ-SR),³ and the Linehan Risk Assessment and Management Protocol (LRAMP)⁴ are administered at program entry. All three measures include assessment of suicidal risk.

- YOQ-SR is re-administered every two weeks and before discharge, and LRAMP is readministered when clinically indicated, for example if youth expresses suicidal ideation or engages in self-harm.
- Youth can serve in a leadership role as peer mentors, which includes orienting new clients to the program.

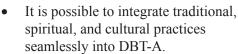
Findings and Outcomes

Desert Visions reports positive outcomes related to:

- Treatment completion
- Improved delivery and coordination of care by all staff
- Improved ability by the adolescents to utilize skillful/effective behavior instead of selfdestructive/harmful behavior

In a pilot study of 229 participants, 96 percent had statistically significant changes on the YOQ-SR.⁵ The YOQ-SR asks specifically about self-harm and suicidal ideation, in addition to emotional and physical distress and interpersonal problems.

Lessons Learned





- In a residential setting, it is critical that the frontline staff, who spend the most time with youth, are trained in DBT-A at the same level as the counselors and other staff. With this training, frontline staff can provide real-time coaching of skills. This is a critical part of strengthening skill acquisition and also generalizing the skills to multiple settings.
- Follow-up training and ongoing support systems for staff, such as weekly team meetings, improve job satisfaction and reduce burnout.⁶
- DBT case consultation is essential to ensure that therapists and staff maintain fidelity to the DBT-A model.
- Therapists and staff may benefit from a one-time training in the basics of behavior therapy, such as the concepts of reinforcement, extinction, and contingency management.



Treatment for Suicidal Ideation, Self-Harm, and Suicide Attempts Among Youth Examples of Suicide Treatment Programs

Central Toronto Youth Services – Outpatient Family Therapy

Toronto, Ontario

Central Toronto Youth Services (CTYS) is a community mental health center serving youth aged 12 to 24 and their families through in-office and outreach programs—including home- and school-based services—and individual, family, and group counseling. School-aged youth are often referred by schools when they would benefit from more support than their school social workers can provide.

ABFT is offered to youth with a variety of clinical presentations, including concerns about suicidal thoughts or self-harm. Programming is tailored to specific groups. For example, a program specifically for Black youth acknowledges the role of systemic racism and helps youth reconnect with their identity and culture.

CTYS also offers programming specific to the needs of lesbian, gay, bisexual, transgender, queer, or questioning youth, and youth with other sexual and gender minority identities (LGBTQ+). Services recognize the impact of systemic oppression for these youth on their mental health.⁷ Youth are welcomed for individual sessions intended to prepare for family sessions. Parents and caregivers receive education and counseling around sexual orientation and/or gender identity, including through a support group for families in the process of accepting their youth's sexual orientation and/or gender identity.

CTYS has worked with the ABFT developers at Drexel University to implement ABFT, and new family-focused workers attend ABFT Level 1 training through Drexel. ABFT developers provide monthly consultation.

Model Features and Elements

- ABFT staff are graduate-level social workers, marriage and family therapists, or counselors.
- CTYS has made some adaptations to ABFT to meet the needs of LGBTQ+ youth; for example, parents may not be included in the youth's therapy sessions until it is safe for the youth.
 Often there is a repair session that needs to occur regarding parents' reaction to their youth coming

Program Implemented

Attachment-Based Family Therapy (ABFT)

Setting

Community mental health center, funded by the Ontario Ministry of Health.

Population of Focus

Youth aged 12 to 24 served throughout agency; some programs have specific age ranges or are targeted to specific groups, such as LGBTQ+ youth.

Program Duration

Youth participate in ABFT for an average of 18 months.

Related Resources

Program Website

- out to them. Parents also learn about microaggressions and the ways in which they may be inadvertently rejecting their child's sexual orientation and/or gender identity.
- CTYS provides adaptations for youth with serious mental disorders that include psychoeducation, as well as more intensive case management, to help youth gain independence.
- Staff receive Applied Suicide Intervention Skills Training (ASIST), a suicide first aid program that addresses suicidal ideation and mitigates risk. ASIST training prepares staff to discuss suicide in a direct manner with someone at risk, to develop a safety plan, to encourage seeking further help as needed, and to encourage safe community involvement.
- Therapists have low caseloads (12 to 15 families) to allow them to meet with youth individually, as well as accommodate all family members' schedules for family sessions.
- A tip sheet is available for staff to help them have difficult conversations about suicide with youth and parents and to create a safety plan.

- Through a safety plan, youth are empowered to cope with distress without automatically going to the hospital. An essential part of the safety plan is the crisis plan, for when coping skills are not sufficient to ensure safety.
- Youth can take on leadership roles through a Youth Engagement Program.

Findings and Outcomes

The program uses the Child & Adolescent Functional Assessment Scale (CAFAS) to monitor clinical outcomes. The CAFAS assesses youth functioning at home, in school, and in the community. It also identifies concerns related to antisocial behavior, mood, thought patterns, substance use, and self-harm. In 2018, participants had an average drop of 25 points on the CAFAS following treatment. A decrease of 20 points or more is considered a clinically meaningful improvement.

Lessons Learned

- Parents may have a history of trauma or neglect themselves.

 ABFT's psychoeducation materials offer resources to help parents examine the impact of their own stressors and intergenerational history of trauma to understand their own parenting behaviors towards their children.
- Responsibility is shared among the family, as opposed to focused on just the youth.
- In a diverse community, such as Toronto,

- some words in the program materials were adapted to be responsive to how parents are attuned with their children in other cultures, specifically for families with intergenerational care arrangements. For example, youth may have been parented by a grandparent who may be included in family sessions through video conference.
- Family therapy for LGBTQ+ youth is appropriate for affirming and somewhat supportive parents. It is not an included service when parents have not affirmed their child's sexual orientation and/ or gender identity. CTYS uses a reflection tool at the beginning of the program to better understand how well the parent understands the youth's sexuality and gender identity. In addition, every youth is asked their pronouns and gender identity when beginning services.
- Therapists need regular peer or individual supervision around the nuances of family therapy to attend to the needs of everyone in the room.



Children's Health System of Texas – Inpatient Psychiatry and Intensive Outpatient Programs

Dallas, Texas

Children's Health System of Texas incorporates elements of SAFETY in both its inpatient and intensive outpatient programs (IOP) for youth. SAFETY-Acute (also known as the Family Intervention for Suicide Prevention, or FISP), the first session of SAFETY, is implemented in the health system's emergency department. The system serves youth throughout the Dallas metropolitan area, as well as rural East Texas.

The Suicide Prevention and Resilience at Children's Health (SPARC) IOP program offers individual, family, and group therapy, and medication management. Parents also attend a weekly parent group to understand the skills that youth learn. SPARC is specifically designed to target risk factors associated with suicide attempts in youth.

Model Features and Elements

- Clinical staff are master's or doctoral-level therapists, doctoral-level trainees, or postdoctoral fellows. In the case of the inpatient setting, nurses have also received training on the model.
- Inpatient unit:
 - Inpatient stays are typically short; therefore, the complete 3-month SAFETY intervention is not possible to implement. Phase 1 of SAFETY: Establishing safety and treatment planning (i.e., SAFETY-A) is the focus in the inpatient setting.
 - Inpatient participants receive two to three individual therapy sessions per week and two family sessions per week.
 - Parents of youth in the inpatient program typically participate in a first session separate from youth, in which they receive psychoeducation on suicide risk factors and lethal means restriction.
- Intensive outpatient program:
 - SPARC IOP participants receive the following interventions, which incorporate aspects of SAFETY: two 3-hour group therapy sessions per week and one individual therapy session per week, while parents attend a multifamily group for the first two weeks that their youth attends the program.

Program Implemented Safe Alternatives for Teens and Youth (SAFETY)

Setting

Inpatient psychiatric unit; intensive outpatient program (IOP).

Population of Focus

Youth aged 12 to 18 for the SPARC IOP; younger youth may be served in the inpatient setting; youth with various diagnoses are served.

Program Duration

Average inpatient stay is 1-2 weeks; average length of time in the IOP is 3-6 weeks.

Related Resources

Program Website

- A Spanish language multifamily group may be offered in the SPARC program if several Spanish-speaking families have entered the program around the same time. If this is not the case, a bilingual therapist will review materials individually with a Spanishspeaking family.
- Parents in both settings receive a handout on how to restrict access to lethal means in their homes, which takes the place of the in-home walk-through that would occur in an outpatient implementation of SAFETY.
- The second family session, with youth and parents together, focuses on safety planning.
- Therapists work with both youth and parents on addressing risk drawn from aspects of the "safety pyramid," which encourages increased time spent with safe settings, safe people, safe activities, safe thought patterns, and safe stress reactions.¹²
- Families receive referrals at program completion (e.g., to a DBT program) and youth are encouraged to remember the skills that they have worked on as they transition to other services.

Findings and Outcomes

The IOP uses the Concise Health Risk Tracking Self-Report scale to assess risk of participating youth. ¹³⁻¹⁴ Outcome data on 364 adolescents who completed at least one group session are available. The majority of adolescents went on to complete the program, indicated satisfaction with the program, and showed improvement in depressive symptoms and suicidal ideation and behavior. ¹³

Lessons Learned

 Programs implementing elements of SAFETY outside of the settings in which it was designed should consider the scope of their level of care and treatment goals.



 Organizations may face billing and logistical challenges to offering individual therapy for both the youth and parent and family therapy all in the same day.



Fairfax-Falls Church Community Services Board – Healthy Minds Fairfax

Fairfax County, Virginia

The Fairfax-Falls Church Community Services Board (CSB) provides outpatient and intensive services for emotional disability, mental illness, substance use, and co-occurring disorders for children and youth from ages 3 to 22 and their families. Services are offered at multiple locations throughout Fairfax County, Virginia. Families unable to pay the full fee for services, or who lack insurance coverage for services, may be eligible for a subsidy and/or an extended payment plan.

Healthy Minds Fairfax¹⁵ is a system of care created to improve access to and quality of mental health and substance use disorder services for children, youth, and families through coordination of services across county agencies, the school system, and a network of private providers. The Fairfax Consortium for Evidenced-Based Practice provides training in evidence-based interventions, as well as consultation, fidelity monitoring, and outcome assessment to behavioral health providers. Training in a community-adapted version of I-CBT, renamed "Core Competency CBT", began in 2018.

Model Features and Elements

- The program provides manualized and modularized cognitive-behavioral treatment that includes individual, parent, and family cognitive-behavioral skills-based modules, as well as a motivational enhancement module, that can be used with the adolescent or parent.¹⁶
- Adaptations were made to the training and consultation protocol, as well as the I-CBT treatment manual, to improve dissemination in community settings. Key adaptations include:
 - Adding more general therapeutic skills, didactics, and role plays to the training
 - Increasing the structure of consultation by using case-conceptualization and treatment planning worksheets developed for community-adapted I-CBT
 - Creating client handouts from the treatment manual text
 - Adding "therapist tips" and "brief guides" to the treatment modules

Program ImplementedIntegrated Cognitive Behavioral Therapy (I-CBT)

Setting

Continuum of services across multiple county agencies, the school system, and a network of private providers.

Population of Focus

Youth aged 12 to 18 with suicidal ideation, suicidal behavior, non-suicidal self-injury, depression, anxiety, conduct problems, and/or substance use disorders.

Program Duration

Length of treatment is dictated by client needs.

Related Resources

Program Website

- Widening the scope of substance specific modules to other types of high-risk behaviors and adding modules to meet additional behavioral concerns for this population
- Translating client handouts into Spanish
- Adding flexibility around the use of a twotherapist model and length of care
- All clinicians complete a four-day training followed by twice monthly consultation calls for six months provided by the trainers. On-site clinical supervisors also complete the training and many participate in consultation calls to learn the treatment model.
- Selection of treatment modules is guided by ongoing evidence-based assessment and case conceptualization.
- A brief assessment tool is administered at every treatment session and scores are graphed to track progress and guide treatment planning. This tool includes brief validated depression, anxiety,

sleep, and anger subscales from <u>NIH PROMIS measures</u>, as well as individual items that assess suicidal ideation, attempts, non-suicidal self-injury, substance use, and medication compliance.



- The suicide risk assessment and safety planning module is family-based and incorporates the use of the Columbia Suicide Severity Rating Scale.
- Concurrent psychiatry services are provided, as needed, through the CSB.

Findings and Outcomes

Clinicians trained in the community adapted I-CBT protocol report statistically significant increases in knowledge and self-efficacy in the use of I-CBT skills from pre- to post-training. Clinicians also report statistically significant increases in use of I-CBT skills with clients at 3-month follow-up, as well as good fidelity to the treatment modules. Collection of client outcome data is underway.

Lessons Learned

- It is possible to integrate use of the community adapted I-CBT protocol into community mental health settings, including behavioral health centers, schools, juvenile forensic programs, and home-based services.
- Consultation by trainers is needed for clinician competency and fidelity in the use of the community adapted I-CBT.
- Training on-site clinical supervisors increases use of and fidelity to community-adapted I-CBT.
- Given the range of clinician backgrounds across community settings, incorporating training in diagnostic interviewing, cognitive-behavioral case conceptualization, evidence-based assessment, parental engagement, and management of family dynamics into the core I-CBT training improves clinician use of community adapted I-CBT.
- It is important to work together with leadership across practice settings and systems to address barriers to successful implementation of evidencebased treatments, including community-adapted I-CBT



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Resources for Evaluation and Quality Improvement

Evaluating an intervention can answer critical questions, provide information about how well a program has been implemented, and determine what may or may not working. Evaluation can also show how programs benefit clients overall, including impacts on suicidal thoughts and behaviors. Evaluation data can also be helpful in making program adjustments, justifying program continuation, and securing funding by providing evidence of program effectiveness. In addition, stakeholders can use information gathered via evaluation to encourage implementation interventions in other settings or communities.

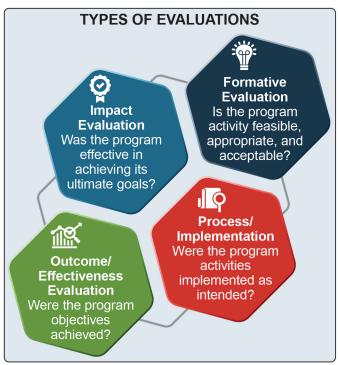
This chapter provides an overview of approaches to evaluate implementation and results of programs that treat suicidal ideation, self-harm, and suicide attempts among youth. The chapter also includes information on implementing a continuous quality improvement (CQI) process and concludes with specific evaluation resources and potential suicide and suicide-related outcomes to track.

Types of Evaluations and Study Designs

Evaluation is typically conducted before a practice is implemented to determine its feasibility (formative evaluation), during implementation (process evaluation), and after the intervention has been delivered to at least one client (outcome and impact evaluations). All four types of evaluations are necessary to be able to make judgments about an intervention's effectiveness on reducing suicidal thoughts and behaviors.



Although often overlooked, **formative evaluation** is an integral part of the implementation process and should be conducted when an organization is exploring the feasibility of implementing a suicide treatment program. This type of evaluation assesses readiness of an organization and its staff to implement the program, articulates a theory of change, and determines the extent to which a program can be evaluated in a reliable and credible fashion. During the formative evaluation,



Adapted from https://www.cdc.gov/std/Program/pupestd/Types %20of%20Evaluation.pdf

program managers and clinicians also establish a way of collecting or obtaining data on program implementation, outcomes, and impact on suicide-related indicators. The final product of formative evaluation is a written implementation and evaluation plan.

Process or implementation evaluation collects data about program implementation. It enables program managers and clinicians to assess whether a program was implemented as planned and informs program improvements. For example, the process evaluation might consist of qualitative interviews or surveys with clinicians and/or youth and their families to assess their satisfaction with the program. A process evaluation is also important for multi-component interventions to better understand if all components are being delivered by the clinicians and similarly attended by clients. For instance, reviewing the clinic records might indicate that the individual and group sessions have good retention, but the family sessions are less well-attended.

An **outcome evaluation** might assess a client's attitudes toward treatment and help-seeking and/or reasons for living pre- and post-intervention; whereas an **impact evaluation** might focus on health system data to examine potential decreases in re-attempt rates or emergency department visits for suicide.

Outcome evaluations collect baseline data from clients on outcomes of interest that can be compared with data collected at the program's end. These outcome data provide program managers and clinicians with information to assess changes or improvements in client attitudes and behaviors that can be associated with a new program.

Impact evaluations assess a program's effectiveness in achieving its ultimate goals. Impact evaluations determine the extent to which changes in outcomes can be attributed to the new program.

Data Used for Evaluations

Evaluations use a variety of data to assess the impact of interventions. Qualitative and quantitative data are complementary, and each provides critical insight into if and how the youth suicide intervention is operating and achieves the intended objectives. Qualitative data include any non-numeric, text-based information, such as verbal, visual, or written data. Qualitative data collection methods include interviews, focus groups, observations, gathering data from documents and images, and open-ended survey questions and polling responses.

Quantitative data are any numeric data that can be processed by mathematical or statistical analysis. Quantitative data collection includes close-ended survey questions and polling responses, services and utilization data, and claims and encounter data.

Qualitative and quantitative research

enables managers and clinicians to learn from clients and obtain the perspective of those with lived experiences. They also can involve collecting data from staff using the suicide treatment program to obtain their perspective on facilitators and challenges to implementation.

Continuous Quality Improvement (CQI)

The U.S. Department of Health and Human Services (HHS) defines CQI as, "the systematic process of identifying, describing, and analyzing strengths and problems and then testing, implementing, learning from, and revising solutions."

Most of the interventions discussed in this guide have multiple components, making CQI an important tool for an organization focusing on suicide prevention. CQI is an essential process for successfully implementing a program.

CONTINUOUS QUALITY IMPROVEMENT (CQI)

What is CQI?

CQI involves a systematic process of assessing program or practice implementation and short-term outcomes and then involving program staff in identifying and implementing improvements in service delivery and organizational systems to achieve better treatment outcomes. CQI helps assess practice fidelity, the degree to which a program delivers a suicide intervention as intended.

CQI differs from process evaluation in that it involves quick assessments of program performance, timely identification of problems and potential solutions, and implementation of small improvements to enhance treatment quality. CQI is usually conducted by internal staff. Process evaluation involves longer-term assessments and is best conducted by an external evaluator.

The Institute for Healthcare Improvement's PDSA Model for Improvement identifies a scientific method for testing small-scale changes in an action-oriented, cyclical manner. The stages are: planning it (Plan), trying it (Do), observing the results (Study), and acting on what is learned (Act).

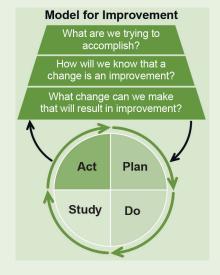
Why use CQI?

CQI takes a broader look at the systems in which programs or practices operate. Because of the pivotal role it plays in performance management, organizations treating individuals with suicidal thoughts and behaviors are encouraged to implement CQI procedures.

What are the steps involved in CQI?

Although steps in the CQI process may vary based on objectives, typical CQI steps are:

- Identify a program or practice issue needing
- improvement and a target improvement goal
- Analyze the issue and its root causes
- Develop an action plan to correct the root causes
- Implement the actions in the action plan
- Review the results to confirm that the issue and its root causes have been addressed and short-term and long-term treatment outcomes have improved
- Repeat these steps to identify and address other issues as they arise



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Outcomes

One of the final important, but often challenging, steps in the process of implementing programs is to determine whether they have yielded desired outcomes. An **outcome** is the change a program plans to accomplish through the implementation of a practice.

The table below provides a list of potential outcomes, illustrative outcome indicators, and data sources that program managers, practitioners, and others may use to evaluate practices to reduce suicidal ideation, self-harm, and suicide attempts. Many of these short- and

intermediate-term outcomes may be tracked at baseline and throughout the practice or program duration through an electronic health record. Longer-term outcomes may be obtained from administrative and survey data.

If an organization wants to understand the prevalence or epidemiology of suicide in a particular state or region, it may be helpful to review national surveillance data sources, such as the Center for Disease Control and Prevention's Youth Risk Behavior Surveillance System.

Outcome	Illustrative Indicators	Illustrative Data Sources	
Short-term Outcomes			
Implementation of evidence- based treatment programs	 Number of providers trained to implement evidence-based programs Number of providers reporting use of the programs Perception among providers that program is suitable for organization and client population 	 Administrative data on training Surveys/interviews of providers Organizational surveys on practice change (e.g., Program Sustainability Assessment Tool) 	
Program fidelity	Degree to which program is implemented as intended	Surveys/interviews of providers Observation checklists	
Treatment initiation	Number of youth initiating treatment with new program/practice	Attendance/administrative data	
Intermediate Outcomes			
Improved treatment engagement and adherence	Extent of client engagement in the recommended treatment regime (e.g., session attendance, premature termination)	Attendance/administrative data Youth and family satisfaction surveys	
Change in severity of mental health concerns	Measures of clinical depression, substance use, antisocial behavior, etc.	 Client self-report qualitative data Structured clinical interview Standardized scales administered by clinician (e.g., Patient Health Questionnaire, Teen Addiction Severity Index) 	
Improved skills associated with coping and help-seeking behaviors	 Engagement with supportive adults at home, at school, and in the community Use of coping skills outside of treatment sessions 	Client self-report qualitative data	
Reduced incidence of suicidal thoughts or behaviors	 Measures of suicidal ideation and self-harm Reduced Emergency Department visits and hospitalizations 	 Client self-report qualitative data Structured clinical interview Standardized scales administered by clinician (e.g., Columbia Suicide Severity Rating Scale, Harkavy-Asnis Suicide Survey) Electronic health record data 	

Long-term Outcomes and Impacts		
Extent to which program is maintained over time	Rates of program completionFunding stability for program	Electronic health record data Organizational surveys on practice change
Reduction in suicidal ideation rates	Rates of suicidal ideation	Electronic health record data
Reduction in self-harm rates	Rates of: - Non-suicidal self-injury • Self-harm (intent unknown)	Electronic health record data
Reduction in fatal and nonfatal suicide attempt rates	Rates of: - Reported attempts - Emergency Department visits • Hospitalizations due to suicide attempts	Electronic health record data

Evaluation Resources

The following section includes guides and resources to support program evaluation and quality improvement. Organizations may consider partnering with academic institutions or local program evaluation experts for external evaluation services or for assistance building internal evaluation capacity.

Evaluating Program Implementation

- A Framework for Program Evaluation from the Program Performance and Evaluation Office at the Centers for Disease Control and Prevention (CDC) summarizes essential elements of program evaluation.
- <u>Suicide Prevention Program Evaluation Toolkit</u> from The RAND Corporation helps program staff overcome challenges to evaluating and planning improvements to their programs.

Evaluating Client-Level Outcomes and Population-Level Prevalence

- Healthy Measures includes PROMIS® and the NIH Toolbox®, two free comprehensive sets of neurobehavioral measurements that assess a broad range of symptoms and risk and resilience factors.
- Suicide Prevention Resource Center's <u>Locating</u> and <u>Understanding Data for Suicide Prevention</u>
 Online Course provides an overview of the strengths and limitations of data on suicide deaths, key suicide data sources, and an explanation of how to use the data to inform community partners and policymakers.
- Suicide Prevention Resource Center's <u>directory</u> of state-specific resources includes contact information for state suicide prevention directors and suicide prevention strategic plans.

- CDC's <u>Youth Risk Behavior Surveillance</u>
 <u>System</u> is a national survey that measures the prevalence of risk behaviors among students in grades 9 through 12, including suicidal ideation and suicide attempt.
- CDC's <u>WISQARSTM</u> (Web-based Injury Statistics Query and Reporting System) is an interactive, online database that provides fatal and nonfatal injury, including self-harm and suicide, and cost of injury data from a variety of trusted sources.

Quality Improvement and Continuous Performance Monitoring

- Zero Suicide's Data Elements Worksheet is intended to assist health and behavioral healthcare organizations in developing a data-driven, quality improvement approach to suicide care.
- Institute for Healthcare Improvement's Quality Improvement Essentials Toolkit includes the tools and templates to launch a quality improvement project and manage performance improvement.

Resources for Evaluating Programs in Native American and Alaska Native (AN/AI) Communities

The Administration for Children and Families'
 <u>A Roadmap for Collaborative and Effective</u>
 <u>Evaluation in Tribal Communities</u> provides NA/
 AI values and priorities, knowledge of which
 can enhance trust between tribal programs and
 their evaluation partners and other stakeholders.

Appendix 1: Acknowledgments

This publication was developed with a significant contribution from Mary Cwik, PhD and Leigh Fischer, MPH. The guidance is based on the thoughtful input of SAMHSA staff and the Expert Panel on Treatment for Suicidal Ideation, Self-Harm, and Suicide Attempts Among Youth from October 2019 through September 2020. A series of guide development meetings was held virtually over a period of several months. Three expert panel meetings were convened during this time.

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Appendix 2: Evidence Review Methodology

The authors followed a rigorous, systematic evidence review process in the development of this guide. This appendix provides an overview of the evidence review methodology used to identify the ratings for the programs included in the guide. Reviewers, in coordination with SAMHSA and experts, conducted a four-step process to select programs, identify related studies, review and rate studies, and identify program ratings.

Step 1: Program Selection

The authors identified six programs after a review of the literature and in consultation with experts. To include interventions that would be most useful to those treating suicidal ideation, self-harm, and suicide attempts, eligible programs were required to meet the following criteria for evidence review:

- Be clearly defined and replicable
- Address the target outcome of reducing suicidal thoughts and behaviors
- Be currently in use
- Have studies of their effectiveness
- Have accessible implementation and fidelity supports

At the conclusion of this step, SAMHSA and the guide's Expert Panel reviewed the proposed programs identified by the authors and agreed on six for inclusion in the evidence review and rating process.

Step 2: Study Identification

Once the programs were selected, the reviewers conducted a comprehensive review of published research on these programs to identify studies of the selected programs. This review only included studies from eligible sources (i.e., peer-reviewed journals and government reports) that avoid clear conflicts of interest. The reviewers documented all potential studies identified through the literature search.

The studies identified in the literature search varied in type and rigor, so the reviewers assessed them further for inclusion in the evidence review. To be eligible for review and study rating, research studies had to:

- Employ a randomized or quasi-experimental design, or
- Be a single sample pre-post design or an epidemiological study with a strong counterfactual (a study that analyzes what would have happened in the absence of the intervention).

Literature reviews, descriptive reports, implementation studies, and meta-analyses were not included in the review, but were documented to provide context and identify implementation supports for the programs.

Additionally, to be eligible for further review and rating, studies had to:

- Be published or prepared in or after 2000
- Be a publicly available peer-reviewed or research report
- Be available in English
- Include at least one eligible outcome related to reduced suicidal thoughts and behaviors
- Have a comparison/control group that is treatment as usual, or no/minimal intervention if using a randomized experimental or quasiexperimental design

Step 3: Study Review and Rating

Next, trained reviewers assessed each study to ensure the methodology was rigorous and therefore could demonstrate causation between the programs and the identified outcomes. Reviewers reviewed and documented each study to ensure:

1. Experimental and comparison groups were statistically equivalent, with the only difference being that participants in the experimental group received the intervention and those in the comparison group received treatment as usual or no/minimal intervention.

- 2. For randomized experiments with high attrition and for quasi-experimental designs, baseline equivalence was established between the treatment and comparison groups.
- 3. For randomized experiments, randomization was not compromised. For example, ensuring that reassignment of treatment status, usually made to balance the distribution of background variables between treatment and control groups, did not occur.
- 4. Study did not have any confounding factors (factors that affect the outcome but are not accounted for by the study).
- 5. Missing data were addressed appropriately:
 - Imputation based on surrounding cases was considered valid.
 - Complete case analysis was considered valid and accounted for as attrition.
 - Using model with dummy for missing as a covariate was considered valid.
 - Assuming all missing data points are either positive or negative was not considered valid.
 - Regression-based imputation was considered valid; mean imputation was not considered valid.
- 6. Outcome measures were reliable, valid, and collected consistently from all participants.
- 7. Valid statistical models were used to estimate impacts.
- 8. Program demonstrated improved outcomes related to suicidal thoughts and behaviors.

Based on the study design and these study characteristics, reviewers gave each study a rating for causal impact. Reviewers used the following scoring metric for each study, based on the eight factors above, to determine if a study rated:

- High support of causal evidence
- Moderate support of causal evidence
- Low support of causal evidence

Only randomized controlled trials, quasi-experimental designs, and epidemiological studies with a strong comparison were eligible to receive a high or moderate study rating.

Step 4: Program Rating

After all studies for a program were assessed for these criteria, the reviewers gave each program a rating based on the number of studies with strong, moderate, or emerging support of causal impact. Causal impact is evidence demonstrating that an intervention causes, or is responsible for, the outcome measured in the study's sample population.

The program was placed into one of the following categories based on the level of causal evidence of its studies:

- **Strong Evidence** Causal impact demonstrated by at least *two* randomized controlled trials, quasi-experimental designs, or epidemiological studies with a high or moderate rating.
- Moderate Evidence Causal impact demonstrated by at least *one* randomized controlled trial, quasi-experimental design, or epidemiological study with a high or moderate rating.
- Emerging Evidence No study received a high or a moderate rating. The program may have been evaluated with less rigorous studies (e.g., pre-post designs) that demonstrate an association between the program and positive outcomes, but additional studies are needed to establish causal impact.

The four-step process described above resulted in identification and rating of six programs with evidence for treating suicidal thoughts and behaviors. The rating given to each program is intended to inform decision-making about adoption of new practices or clinical or system enhancements that will improve outcomes for youth.

Photos are for illustrative purposes only. Any person depicted in a photo is a model.

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