

***Suicidal Behavior
in
Children and Adolescents***

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Definitions

- The most currently accepted definitions of different types of suicide-related behaviors are the **Columbia Classification Algorithm for Suicide Assessment (CCASA)**:

1-Suicidal ideation: **Thoughts** of death without actually engaging in the behavior; can range from “passive,” in which the person thinks about wanting to be dead, to active thoughts about killing oneself.

2-Suicide attempt: A potentially self-injurious **behavior** with some evident intent to die (may be inferred from the behavior)

3-Completed suicide: Suicide attempt that results in **death**

Definitions

- 4-Aborted attempt:** The person begins to make a suicide attempt but **stops** himself or herself **prior to experiencing injury**
- 5-Interrupted attempt:** The person begins to make a suicide attempt but is **interrupted by another person** or **circumstance** prior to experiencing injury
- 6-Nonsuicidal self-injurious behavior:** A self-injurious behavior performed **without intent to die** (other intent may be, for example, to relieve distress, effect change in others or the environment)

Epidemiology

- Suicide is the **second leading cause of death** for young people between the **ages of 10 and 24** with over 140,000 young people taking their own life each year worldwide.
- Of concern is the large increase in rates of suicide death and suicide-related behaviors observed among children and youth in the last decade

Characteristics

- AGE:

- ❑ The rates of attempted and completed suicide **increase dramatically with age throughout childhood into adolescence**, Various explanations including:

- 1-elevated risk for **psychopathology** during adolescence,

- 2-increased **cognitive capacity** to prepare and execute a suicide plan,

- 3- decreased **supervision** with age.

- ❑ Although prepubertal children do endorse suicidal ideation, their cognitive immaturity appears to limit their ability to plan and execute lethal suicide attempts.

- ❑ suicidal ideation is **rare before age 10 years**(less than 1%)

Characteristics

- **Gender and Sexual Orientation:**
- The rate of **completed suicide** among youth is significantly higher for **males** than females (ratio of nearly **5 to 1**)
- **females** endorse higher rates of **suicidal ideation** and have higher **suicide attempt** rates than males.
- The higher rate of completed suicide among male youth may be attributable to **higher rates of associated risk factors**, including:
 - 1- **substance use** and
 - 2- **antisocial behaviors** and
 - 3- the tendency for males to employ **more violent and lethal means of attempting suicide**.
- As compared with heterosexual youth, **sexual minority youth** are at greater risk of attempted suicide and suicidal ideation

Characteristics

- Socioeconomic Status:

increased suicide risk is associated with lower socioeconomic status.

Risk Factors

1-Suicidal Ideation:

- Approximately **33%** of youth with suicidal ideation go on to make a **suicide plan**;
- Similarly, of the 33% of youth whose suicidal ideation progresses to attempt, **86.1%** will make the **attempt** within 1 year of ideation onset

Risk Factors

2-Previous Suicidal Behavior:

- The strongest predictor of future suicidal behavior is a **history of suicidal behavior**
- adolescent suicide attempters a reattempt rate within 1 year of **6.8%** in **first-time attempters** and **24.6%** in those with a history of **attempts**.
- the greatest risk period for reattempt occurring within **3 months** of the initial attempt
- The period **immediately following discharge** from an inpatient psychiatric unit appears to be associated with particularly high risk

Risk Factors

- Youth with a history of attempting suicide using **methods high in medical lethality**, such as **hanging, shooting, or jumping**, are at especially high risk for eventual completed suicide
- it is not necessarily the case that an attempt of low lethality reflects low suicidal intent, particularly among **younger children who may overestimate the lethality of means**.

Risk Factors

3-Availability of Lethal Means:

- nearly **45%** of young people who completed suicide in the United States died by firearm
- If a loaded gun is in the home, it is highly likely to be selected as a means of suicide.
- a loaded gun in the home was associated with a **thirty-fold** increased risk for completed suicide, even among youth with no apparent psychopathology
- Thus, **assessment** of both presence and storage/accessibility of firearms and ammunition in the homes of young people is recommended.

Risk Factors

4-Psychiatric Disorders:

- majority—nearly **90%**—of youth who **die by suicide** have evidence of serious psychopathology.
- Youth who **attempt** suicide also demonstrate high rates of psychopathology(**96%**).
- **Mood disorders** convey the most potent risk, with more than **80%** of attempters and **60%** of completers meeting criteria for at least one major mood disorder.
- Other psychiatric conditions frequently associated with youth suicide and suicide attempt include:
disruptive, anxiety, and substance use disorders.
- ❖ **Comorbidity** is the rule rather than the exception among youth who attempt and complete suicide.

Risk Factors

5-Psychological Factors:

- **impulsive aggression** in response to frustration or provocation
- **Hopelessness** also correlates strongly with suicidal intent and predicts risk for reattempt and completed suicide beyond its association with depression
- **personality traits:**
 - **neuroticism**—*the tendency to experience prolonged and severe negative affect in response to stress*—has repeatedly been associated with suicide attempts in youth.
 - **perfectionism** associated with suicide attempts in youth

Risk Factors

6-Medical Disorders:

- **Chronic medical conditions** affecting the **central nervous system** (e.g., **epilepsy, migraine**) and those involving **inflammation** (e.g., **asthma, inflammatory bowel disease**) are associated with increased risk for suicidal ideation and behavior in pediatric populations.

Risk Factors

7-Family Factors:

- both **environmental** and **genetic** mechanisms for the familial transmission of suicidal behavior, and suicidal behavior is transmitted in families distinct from its association with familial psychiatric illness.
- The first-degree relatives of adolescent suicide attempters and completers exhibit a suicide attempt rate **2-6 times** higher than that found in the general population, even after controlling for higher rates of psychopathology

Risk Factors

- Greater familial loading has been found to be specifically associated with **earlier age at onset** of suicidal behavior in offspring, suggesting that early onset suicidality may be a particularly **familial** form that is mediated by **impulsive aggression**.
- The **family environments** of suicide attempters are characterized by **high levels of discord** and **violence** and **less supportive** and **more conflictual** than those of non-attempters.
- conversely, a **supportive** and **warm parent-child relationship** can buffer against suicidal behavior in high-risk adolescents .
- **physical** and **sexual abuse** and **parental loss** or **absence** have a potent association with attempted and completed suicide in youth.

Assessment

- Suicidal ideation should be assessed according to both **severity (intent)** and **pervasiveness (frequency and intensity)**.
- Suicidal ideation characterized by a **high degree of severity** and **pervasiveness** is associated with greater likelihood of suicide attempt in adolescents.
- In addition, **prior suicidal behavior** should be carefully reviewed

Assessment

1-Suicidal Intent:

- Suicidal intent is the extent to which the individual wishes to die.
- Given findings that adolescents may disclose suicidal ideation on self-report ratings but deny this information during interviews ,assessment of suicidal risk should incorporate **both means of assessment**.

Assessment

□ With regard to suicidal intent, 4 components should be explored:

1-**belief** about intent (i.e., the extent to which the individual is wishing to die)

2-**preparatory behavior** (e.g., giving away prized possessions, writing a suicide note)

3-**prevention of discovery** (i.e., planning the attempt so that rescue is unlikely)

4-**communication** of suicidal intent.

- High intent—as evidenced by **expressing a wish to die**, **planning** the attempt ahead of time, **timing the attempt to avoid detection**, and **confiding suicide plans prior to the attempt**—is associated with **recurrent suicide attempts** and with **suicide completion**.

Assessment

2-Suicide Plan and Access to Means:

- Assessment should include inquiry regarding **specific plans** for inflicting self-harm, as well as **access to means** considered.

Assessment

3-Medical Lethality:

- Suicide attempts of **high medical lethality** (e.g., **hanging, shooting**) are frequently characterized by high suicidal intent, and individuals who use more medically lethal means are at higher risk to complete suicide.
- However, an **impulsive attempter** with **relatively low intent** but **ready access to lethal means** may also engage in a medically serious and even fatal attempt.
- It is important to **differentiate nonsuicidal self-injurious behavior(NSSI) from suicide attempt** by expressly inquiring about intent.
- Given that the **risk factors** for NSSI and suicidal behavior **overlap**, many youth engage in both behaviors, and therefore the **presence of one should alert the clinician to inquire about the other.**

Assessment

4-Precipitants:

- The most common precipitant for adolescent suicidal behavior is **interpersonal conflict** or **loss**, most often involving a **parent** or a **romantic relationship**.
- **Legal** and **disciplinary problems** also frequently precipitate suicidal behavior, particularly among youth with **conduct disorder** and **substance abuse**.
- Precipitants that are **chronic** and **ongoing**, especially **recurrent physical** or **sexual abuse**, are associated with poorer outcomes, including recurrence of suicidal behavior and even subsequent completion

Assessment

5-Motivation:

- Motivation is the **reason** the individual cites for his or her suicidality.
- Individuals with **high suicidal intent** indicate that their primary motivation is either to **die** or to **permanently escape an**
- **emotionally painful situation**, and these youth are at elevated risk for reattempt.
- Many youth who attempt suicide report they are motivated by the **desire to influence others** or to **communicate a feeling**.
- Understanding the motivation for the suicide attempt has important implications for treatment, **as intervention may focus on helping youth explicitly identify their needs and find less dangerous ways to get their needs met.**

Treatment (Clinical Management)

1-Safety Plans:

Safety planning is considered best practice for suicide prevention with at-risk individuals.

- safety plan involves working with the patient and family to collaboratively create **a list of strategies that the patient agrees to use when a suicidal crisis occurs.**
- The **first step** in safety planning is **elimination of the availability of lethal means.**
- Next, an agreement with the adolescent is negotiated whereby he or she **agrees to some action in the event of suicidal thoughts and/or urges.**

Treatment (Clinical Management)

- Such actions may include implementing coping skills and contacting a responsible adult and/or a professional or crisis line.
- Next, triggers and warning signs (including cognitive, emotional, and behavioral) of a pending suicidal crisis are identified such that the adolescent can identify when it would be necessary to implement the plan.

Treatment (Clinical Management)

- Specific steps in the plan, arranged **hierarchically**, are then collaboratively identified.
- **Steps in the plan begin with strategies the adolescent can employ without the assistance of others** (e.g., listening to music, watching a movie)
- **if ideation/urges persist, external strategies** should then be identified that include **responsible adults** (along with their contact information) the adolescent can turn to for help.
- Family members are invited to provide input during development of the plan.

Treatment (Clinical Management)

2-Means Restriction:

- removal of guns from the homes of at-risk youth is strongly recommended.
- Some parents are unwilling to remove guns but are willing to store them securely. Therefore, risk reduction may be achieved by exploring alternatives to removal, including **storing guns locked, unloaded**, and/or **disassembled**.

3-Inpatient Hospitalization:

- psychiatric hospital admission provide a safe environment for suicidal patients to resolve acute suicidal crises.

Treatment (Clinical Management)

4-Pharmacological Approaches:

- Data from psychosocial and pharmacological studies suggest that the treatment of depression may not be sufficient to reduce suicidal risk; rather, specific treatments targeting suicidality may be required.
- Although no pharmacological treatment has demonstrated efficacy in treating suicidality per se in youth, medications that target **aggression** and **emotional dysregulation** such as **lithium** and **atypical (second-generation) antipsychotics** may hold promise.
- There is concern regarding a **possible association between SSRI treatment and emergent suicidality** in children and adolescents

Treatment (Clinical Management)

- Studies documented a **twofold increase** in suicide related adverse events among youth receiving active medication as compared with those taking placebo.
- Similarly, the U.S. FDA meta-analysis of short-term placebo-controlled trials of SSRIs and other antidepressants in youth also indicated an increased risk of **suicidal ideation** or **attempt** in patients taking antidepressants.
- Most commonly, suicidality occurred **early in treatment** and consisted of increased or **new-onset suicidal ideation**, with **very few suicide attempts** and **no suicide completions**.

Treatment (Clinical Management)

- The mechanism by which SSRIs might increase risk for suicidal behavior is **not known**; possible explanations include: **increased irritability and agitation**, **disinhibition**, and **potentiation of a mixed state** in those with a preexisting bipolar diathesis.
- there is a significant correlation between an **increase in SSRI prescriptions and sales** and a **decline** in both the **overall suicide rate** and the **suicide rate among adolescents** .
- Additionally, the decrease in SSRI prescriptions following the public health warning of a possible association between SSRIs and suicide in youth was associated with a **marked increase in youth suicide**.
- Furthermore, one meta-analysis supports the assertion that **11 times more depressed youth will show a good clinical response to SSRIs** than will become suicidal.

Treatment (Clinical Management)

5-Psychotherapy Approaches:

- **cognitive-behavioral therapy (CBT)**
- **Dialectical behavior therapy (DBT)**
- **Family Interventions**

THANK YOU FOR YOUR ATTENTION

