“I think it took awhile before I realized, and then when I started thinking about things and realizing that I was going to be like this for the rest of my life, it gives me a really down feeling and it makes me think like—why should I be around like this for the rest of my life?”

- TBI Survivor
DISCLAIMER: This packet was designed to help guide clinicians in their work with TBI survivors who may be suicidal. However, the information contained herein is not exhaustive, and clinicians are encouraged to seek out additional resources as needed. This packet does not address all aspects of suicide or TBI.

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Introduction

There is a need for more resources that are specifically targeted toward TBI survivors who may be considering suicide.

Based upon this need, researchers at the VA VISN 19 Mental Illness Research, Education, and Clinical Center (MIRECC) produced this information and resources guide.

The target audience is clinicians and care providers working with TBI survivors.

This guide includes:

1. Basic information regarding suicide and suicidal behavior
2. Basic information regarding TBI
3. Findings regarding the increased risk for suicidal behavior post-TBI
4. Tools for inquiring about potential suicidal behavior or history of TBI
5. Treatment considerations based upon existing literature
6. Prevention and treatment considerations based upon interviews of TBI survivors conducted by the authors
7. Resources for clinicians, individuals with a history of TBI, and family members
# Table of Contents

## Suicide
- Demographics 5
- Risk Factors 6
- Protective Factors 7
- Warning Signs 8

## Traumatic Brain Injury
- Definitions 9
- Demographics 10
- Risk Factors 11
- Common Enduring Symptoms 12

## Suicide and TBI
- Shared Risk Factors 13
- Increased Risk Factors 14

## Assessment and Treatment Considerations
- Suicide Risk Assessment 15
- TBI History Assessment 16
- Treatment Considerations 17
- VISN 19 MIRECC Qualitative Study 18
- Traumatic Brain Injury and Suicide Prevention 19

## Resources
- 20

## Bibliography
- 21
Section: Suicide

“The worst feeling is like there’s nowhere else to go or nothing else to try.”

- TBI Survivor
Suicide: Demographics

• Suicide is a major leading cause of death in the United States, accounting for approximately 33,000 deaths per year.¹

• In the United States, white males account for approximately 71% of suicide deaths each year.¹

• Suicide rates are the highest for older white males.¹

• Men are four times more likely to die by suicide than women.¹

• Veterans are twice as likely to die by suicide compared to non-Veterans in the general population.²

• Among Veterans, younger and older Veterans are more prone to die by suicide than middle-aged Veterans.³
## Suicide Risk Factors

### Risk factors: Common correlates of suicidal behavior.
These include individual characteristics (e.g., age, gender), diagnoses (e.g., depression), and life events (e.g., divorce, unemployment).

- Previous suicide attempt(s)
- Current ideation, intent, plan, access to means
- Family history of suicide
- Alcohol/substance abuse
- Recent discharge from an inpatient unit
- Current or previous history of psychiatric diagnosis
- Co-morbid health problems
- Impulsivity and poor self-control
- Hopelessness
- Recent losses - physical, financial, personal
- History of physical, sexual, or emotional abuse
- Same-sex sexual orientation
- Age, gender, race, social status (e.g., elderly or adult, unmarried, white, male, living alone)

Although risk factors are related to suicidal behavior, they *do not necessarily* predict individual behavior.
Suicide Protective Factors

Protective factors: Factors that can protect one from suicidal behavior. Examples include social support, spirituality, and adaptive coping strategies.

These protective factors are highlighted on a brochure to help Veterans, their family members, and friends learn that they can take the necessary steps to get help, titled:

ACE: Suicide Prevention for Veterans and Their Families and Friends.

This brochure can be downloaded from: http://www.mirecc.va.gov/docs/ACE_Package.pdf

- Family, friends, social support, close relationships, battle buddy
- Coping/problem-solving skills
- Ongoing health and mental health care relationships
- Reasons for living
- Cultural and religious beliefs that discourage suicide and support living

Protective factors may not provide a sufficient buffer during periods of crisis.
Suicide Warning Signs

Warning signs: The earliest detectable signs that indicate that there is a heightened risk for suicide within minutes, hours, or days. Warning signs refer to a person’s behaviors (e.g., buying a gun) or statements (e.g., “I would be better off dead”).

The following suicide warning signs were developed by expert consensus. These warning signs are highlighted on the VA Suicide Risk Assessment Guide which is presented in part on page 28. They are also highlighted on the brochure entitled, ACE: Suicide Prevention for Veterans and Their Families and Friends.

These signs require immediate attention:

- Thinking about hurting or killing self
- Looking for ways to kill self
- Seeking access to pills, weapons, or other means
- Talking or writing about death, dying, or suicide

The presence of these signs requires contact with a professional:

- Inability to sleep or sleeping all the time
- Withdrawing from friends, family, and/or society
- Increasing alcohol or drug use
- Acting recklessly or engaging in risky activities
- Rage, anger, seeking revenge
- Avoiding things or reliving past experiences
- Anxiety or agitation
- Dramatic changes in mood
- No reason for living—no sense of purpose in life
- Feeling trapped—like there is no way out
- Hopelessness
Section: Traumatic Brain Injury (TBI)

“The worst part is, with traumatic brain injury, people can’t see it. And they see on the outside that I move around. I do this, and I do that, but they don’t see the struggle inside: the memory loss, the struggles to remember, the struggles to forget.” - TBI survivor
TBI Definitions

Traumatic Brain Injury (TBI): A traumatic brain injury is a blow or jolt to the head or a penetrating head injury that disrupts the function of the brain. Not all blows or jolts to the head result in a TBI. The severity of such an injury may range from mild (i.e., a brief change in mental status or consciousness) to severe (i.e., an extended period of unconsciousness or amnesia after the injury). A TBI can result in short- or long-term problems with independent function.

Types of injuries:
Medical terms used to describe specific types of TBI:

- Subdural Hematoma
- Epidural Hematoma
- Diffuse Axonal Injury
- Blast Injury

Levels of severity:\(^8\,^9\)
Levels of TBI severity are measured through multiple means, all of which are related to brain functioning or the brain’s condition immediately post-injury. Methods of measurement include an estimate of duration of altered or loss of consciousness (LOC) and/or post-traumatic amnesia (PTA), which is the period of time after the injury during which the TBI survivor is not able to form new memories. In addition, alteration of consciousness/mental state (AOC) is described if alteration immediately relates to the trauma to the head. If medical care is sought, a tool called the Glasgow Coma Scale (GCS) may be used to assess level of acute injury.

The VA has advocated the following system of classification:\(^9\)

- **Mild TBI:** A TBI with normal structural imaging, 0-30 minutes of LOC, a moment and up to 24 hours of AOC, 0-1 day of PTA, or a GCS* score of 13-15
- **Moderate TBI:** A TBI with normal or abnormal structural imaging, >30 min and <24 hours of LOC, >24 hours of AOC, >1 and <7 days of PTA, or a GCS score of 9-12
- **Severe TBI:** A TBI with normal or abnormal structural imaging, >24 hours of LOC, >24 hours of AOC, >7 days of PTA, or a GCS score <9

*Glasgow Coma Scale Score: Best available score in the first 24 hours
Each Year in the United States

- 1.4 million individuals sustain a TBI
- 50,000 die
- 235,000 are hospitalized
- 1.1 million are treated in the ER and released
- The majority of injuries sustained are classified as mild
- An unknown number of individuals receive no acute care
- 80,000—90,000 individuals experience a long-term disability as a result of TBI

Leading Causes of Civilian TBI\textsuperscript{10}

- Falls (28%)
- Transportation-related events (20%)
- Struck by/against another object (19%)
- Assaults (11%)
- Other (22%)
TBI: Risk Factors\textsuperscript{10,11,12}

The following have been identified as risk factors for sustaining a TBI:

- Age 15 to 19
- Alcohol and drug use
- Familial discord
- Low socio-economic status
- Unemployment
- Male
- Antisocial behavior
- Athletic participation
- Combat experience
- History of previous brain injury
## Common Enduring TBI Symptoms

The majority of individuals with mild TBI return to baseline functioning within one year of injury.\(^\text{14}\)

<table>
<thead>
<tr>
<th>Cognition</th>
<th>Mood</th>
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<tbody>
<tr>
<td>Motor/sensory disturbances</td>
<td>Apathy/Depression</td>
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<tr>
<td>Impairments in:</td>
<td>Anxiety</td>
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<tr>
<td>Language, communication</td>
<td>Irritability</td>
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<tr>
<td>Attention, concentration, memory</td>
<td>Emotional lability</td>
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<tr>
<td>Learning new information</td>
<td>Insensitivity</td>
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<td>Speed of information processing</td>
<td>Egocentricity</td>
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<td>Judgment, decision-making, problem-solving, insight</td>
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<th>Behavior</th>
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<tr>
<td>Lack of initiation</td>
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<td>Disinhibition</td>
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<td>Impulsivity</td>
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<td>Restlessness</td>
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<td>Aggression</td>
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The CDC estimates that at least 5.3 million Americans currently have a long-term or lifelong need for help to perform activities of daily living as a result of a TBI.\(^\text{7}\)
Section: Suicide and TBI

“I had my heart set on it, and, for three days I just sat in my room and contemplated how to do this. And finally it got to the point where I tried....”

- TBI Survivor
Shared Risk Factors for TBI and Suicide:

- **Age**
- **Male**
- **Substance Use**
- **Psychiatric Disorders**
- **Aggressive Behavior**
Suicide and TBI: Increased Risk

After a TBI, individuals may think about suicide.\textsuperscript{15}

Having a TBI increases risk for suicidal behavior.

In comparison to the general population, TBI survivors are at increased risk for:

- Suicide Attempts\textsuperscript{16}
- Death by Suicide\textsuperscript{17}

The risk of suicide attempts appears to increase after a TBI if the individual also has post-injury psychiatric/emotional disturbances and/or substance abuse problems.\textsuperscript{17,18}
Why Might Those with TBI be at Increased Risk for Suicidal Behavior?

“It built up over a long period of time…problems that have been brewing over the last 20 or 30 years just finally kind of all added up together and you know, just kind of exploded…” - TBI Survivor

Sustaining a TBI can be stressful

- Loss of support system
- Loss of job/income
- Increased psychological stress
- Change of roles within the family unit
- Decreased ability to function as a parent
- Decreased ability to function as a spouse/significant other

TBIs can contribute to limited problem-solving strategies

- Cognitive deficits
- Poor judgment
- Impulsivity
- Poor decision-making ability
- Organically-based mood lability
Assessment and Treatment Considerations

Suicide Risk Assessment ............................................. Page 20
TBI History Assessment .............................................. Page 21
Treatment Considerations ........................................... Page 22
Suicide Risk Assessment

*Questions to help you determine the level of suicidal risk:*

- What is the intensity, frequency, and duration of the thoughts?
  - What is the level of intent?
  - What is the rationale for the behavior?
- What is the current level of combined stressors?
- If the individual has a plan, how lethal is the method they are describing?
  - Is the plan feasible?
- Have there been past attempts? If so, is this situation similar?

Once you have assessed that there is a risk for suicidal behavior, you need to work with the TBI survivor and members of their support system to determine the safest way to manage their level of risk.
History of TBI Assessment

Questions to help you assess for a history of TBI:

• Have you ever had a head injury?
  • When?
  • How many times?

• Do you remember what happened?
  • If not, what is the first thing you remember before/after the accident?

• Were you told that you had a loss of consciousness?
  • If so, for how long?
  • Can someone else provide this information also?

• Did you seek treatment?
  • If so, where?

• How long were you in the hospital?

• Were drugs/alcohol involved?

• Did you notice a change in your thinking or personality after the incident?

• Did you have trouble walking, completing tasks, driving, following a conversation?

• Did you have seizures/headaches?

• Did you receive Occupational Therapy, Physical Therapy, Speech, or Psychological services?
Treatment Considerations for TBI and Suicide Based on the Literature

• Screening, even many years after the injury, for post-TBI-related psychiatric sequelae is indicated.

• Post-TBI some individuals may experience chronic suicidal ideation. As a result, survivors and family members/caregivers need to be educated about risk for suicide and encouraged to discuss and identify person-specific warning signs.

• In light of the fact that Simpson and Tate\textsuperscript{15} found that a number of TBI survivors attempted suicide by overdose, they advocated limiting the availability of means. Once suicidal behavior has been identified as a significant issue, prescribers should “follow procedures designed to minimize harm.”

• After a suicide attempt, close monitoring for at least one year for “signs of suicidality” is indicated.\textsuperscript{18}

• Teasdale and Engberg\textsuperscript{17} examined a 15-year period of time post-injury and found that the risk of suicide was maintained at roughly the same level during that period. This suggests the need for ongoing evaluation.
“There were a lot of times from the beginning where I was on a bad course or whatever. My therapist never just told me that I needed to get to this other track. She showed me the ropes and how to get through the maze to get to this point. You know, she never talked at me or told me, ‘you’ve got to do this to get there.’ She said, ‘Let’s do this together...’”

- TBI Survivor
Traumatic Brain Injury and Suicide Prevention

With grant support from the Colorado TBI Trust Fund, 13 TBI survivors answered questions which were modeled after those used by researchers who completed a similar project.19

Treatment Considerations Based on the Study Findings:20

**Precipitating Factors in Those with a History of TBI/Suicidality:**
- Loss of self
  - Decreased sense of masculinity
  - Increased sense of burdensomeness
  - Frustration regarding the “hidden” nature of TBI
- Cognitive sequelae
  - Memory problems
- Emotional and psychiatric disturbances
  - Depression
  - Worthlessness
  - Anger
  - Hopelessness

**Protective Factors in Those with a History of TBI/Suicidality:**
- Social support
  - Family, friends, peers, pets
- Having a sense of purpose/hope
  - Having a job/hobby
  - Volunteering
  - Feeling that they are “still able to do something”
- Religion/spirituality
  - Having a community
- Mental health care
  - Access to care
  - Medication

**General Recommendations for Suicide Prevention**

Increased education about available services

Access to integrated treatment

Increased mental health services within the context of TBI rehabilitation

Resources

The following pages list phone numbers and websites that can be used as resources for both clinicians and care providers. Please note that website content changes frequently.

For your convenience, pages 26-29 can be photocopied and given to TBI survivors, family members, and/or caregivers.

- Page 29 lists the contact information for a toll-free national Suicide Hotline number.
Suicide Prevention Resources

National Websites:
American Association of Suicidology: http://www.suicidology.org/
American Foundation for Suicide Prevention: http://www.afsp.org/
National Suicide Prevention Lifeline: http://www.suicidepreventionlifeline.org/
Suicide Prevention Resource Center: http://www.sprc.org
VA VISN 19 Mental Illness Research Education and Clinical Center: http://www.mirecc.va.gov/visn19/

National Toll-Free Numbers:
National Suicide Prevention Lifeline:

1-800-273-TALK

This toll-free number is set up to take calls specifically from Veterans. If a Veteran calls the hotline and selects the VA option by pushing the #1, he or she is put in direct contact with a trained VA professional who will assess their crisis situation. These Veterans may be contacted by local VA Suicide Prevention Coordinators for follow-up care.
TBI Resources

Because details regarding support groups for TBI or Suicide often change, TBI survivors, family members, and care providers are encouraged to obtain information and inquire about local support groups from these larger organizations.

**National Websites:**


**National Toll-Free Numbers:**

National Brain Injury Information Center:  1-800-444-6443

Defense and Veterans Brain Injury Center:  1-800-870-9244
Responding to Suicide Risk

Assure the patient’s immediate safety and determine most appropriate treatment setting:

Refer for mental health or assure that follow-up is made

Limit access to means of suicide

Inform and involve someone close to the patient

Increase contact and make a commitment to help patient through crisis

Suicide risk assessment:

Look for warning signs:

Threatening to hurt/kill self

Looking for ways to kill self

Seeking access to pills, weapons, or other means

Talking or writing about death, dying, or suicide

Presence of any of the above requires immediate attention and referral. Consider hospitalization for safety until compete assessment may be made.

Assess for risk and protective factors

Ask the questions:

Are you feeling hopeless about the present/future?

If yes, ask...

Have you had thoughts about taking your life?

If yes, ask...

When did you have these thoughts, and do you have a plan to take your life?

And...

Have you ever had a suicide attempt?

For any of the above, refer for mental health treatment or assure that a follow up appointment is made.

Adapted from the VA Suicide Pocket Card, Employee Education System at the Department of Veteran’s Affairs
It takes the courage and strength of a warrior to ask for help.....

If you’re in an emotional crisis call 1-800-273-TALK “Press 1 for Veterans”

www.suicidepreventionlifeline.org

Department of Veterans Affairs


