

# Injury Prevention Resource Guide

## Why Do We Care About Injury?

Injuries are the **NUMBER ONE** cause of death for people 44 years of age and younger, ahead of cancer and heart disease. They can often lead to **long-term disability, trauma, and mental health challenges** and have been linked to the development of **chronic disease**.

## What is an Injury?

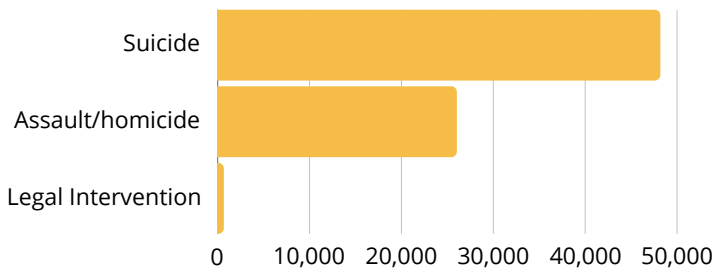
Injury is generally defined as **damage to the body caused by an external force**. Traumatic injury refers to injury that can cause death or disability without immediate medical attention.

Injuries can be broken down into two general categories, **intentional** or **unintentional**.

### INTENTIONAL:

Injuries resulting from purposeful human action, whether directed at oneself or others.

#### Top 3 Causes of Fatal Intentional Injury (2021)



**NOTE:** When discussing injury, it is best practice to avoid referring to injuries as “accidents”, as it implies that it is just a matter of fate, something that can’t be avoided. Research shows that injuries are not only predictable, but also preventable.

## Factors That Influence Injury

People don’t often sustain an injury due to personal choice or bad luck. Historical and social contexts influence factors - known as **social determinants of health (SDoH)** - that can affect injury risk and outcomes.

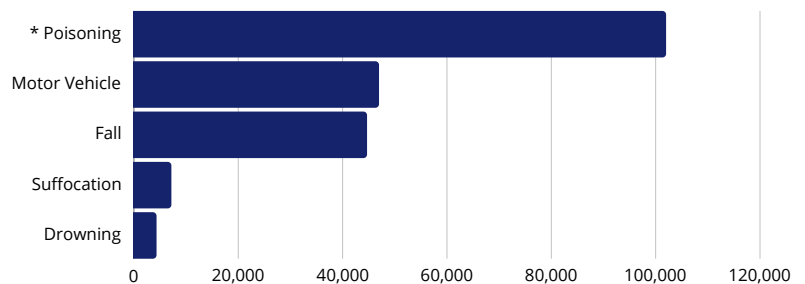
**Healthy People 2030** categorizes SDoH in 5 domains:

- Economic stability
- Education Access and Quality
- Health Care Access and Quality
- Neighborhood and Built Environment
- Social and Community Context

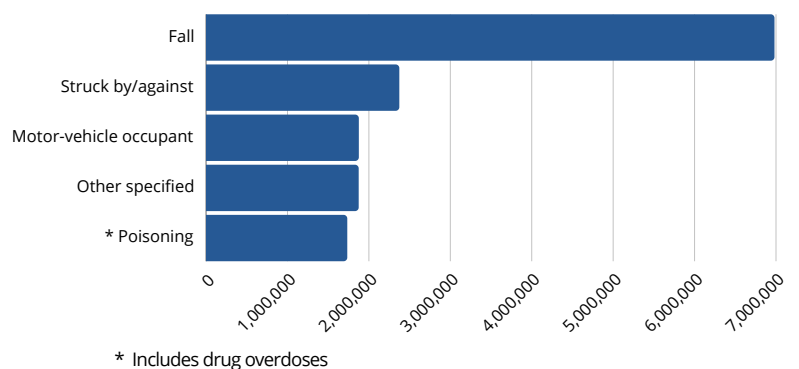
### UNINTENTIONAL:

Injuries that are not inflicted purposely and that occur without intent of harm.

#### Top 5 Causes of Fatal Unintentional Injury (2021)



#### Top 5 Causes of Non-Fatal Unintentional Injury (2021)



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## What is Injury Prevention?

Injuries are both predictable and preventable. The field of injury prevention determines how we can reduce the risk of injury through a variety of strategies. Research findings can help identify when injuries occur and evidence-based recommendations can help prevent these injuries from happening.

## Where is Injury Prevention Practiced?

- National level ([CDC](#), [Indian Health Services](#))
- State Health Departments
- Local Health Departments
- Universities/[Injury Control Research Centers](#)
- Hospital Trauma Programs, like the [Gillian Reny Stepping Strong Center for Trauma Innovation](#)

## How Do We Prevent Injury?

Injury prevention involves thinking about **WHEN** we want to prevent injury, as well as **WHO** or **WHAT** we want to focus our intervention on.

### WHEN can we prevent injury?

- **Primary (Pre-event)** – How can we intervene before the injury occurs?
- **Secondary (Event)** – How can we make the injury less severe when it occurs?
- **Tertiary (Post-event)** – How can we improve the long-term outcomes from injury?

### WHO or WHAT do we want to focus on?

- **Host** – Individual factors related to one’s behaviors that can affect their injury risk.
- **Agent** – The factor or force that would cause the injury.
- **Environment** –
  - **Physical** environment looks at changing a physical space.
  - **Social/cultural** environment looks at modifying social norms and contexts.

The **Haddon Matrix** is a conceptual model that looks at the **WHEN** and the **WHO/WHAT** to help develop different kinds of interventions. Below is an example matrix looking at how to prevent injury from drunk driving.

### WHO/WHAT

	HOST	AGENT	PHYSICAL ENVIRONMENT	SOCIAL ENVIRONMENT
WHEN PRIMARY/ PRE-EVENT	Alcohol use while driving	Impairment detection in car	Alcohol access	Designated driver programs
WHEN SECONDARY/ EVENT	Wearing a seatbelt	Airbags	Median Barriers	Vehicle design laws
WHEN TERTIARY/ POST-EVENT	Insurance status	Crash notification system	Emergency services system	Trauma system funding

## Want to learn more?

Check out the following resources

## [Stepping Strong Injury Prevention Lunch and Learn](#)

[SafeStates IVP 360](#)

[SAVIR](#)

[CDC Injury Center](#)