

Keeping Kids Safe: Advancing Pediatric Firearm Injury Prevention

April 3, 2025





Introduce CHA's new report – <u>Keeping Kids</u>

<u>Safe: Firearm Prevention Efforts at</u>

Children's Hospitals.

Learn about evidence-based strategies for preventing youth firearm injuries

Share additional resources including the Ad Council's Agree to Agree campaign

Take Your Questions

Libby Ireson, MDGeneral Academic Medicine Fellow
Children's National Health System



Keeping Kids Safe

Advancing Firearm Injury Prevention



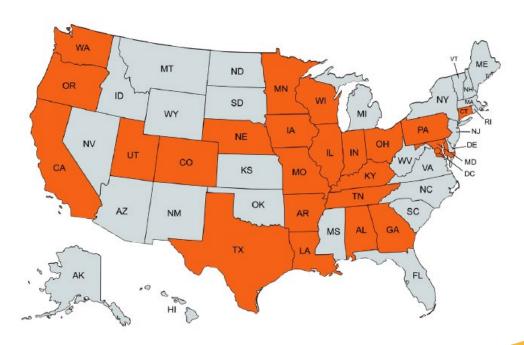
Firearms are the #1 cause of death for children in the U.S.

Firearm injuries and deaths are preventable.

Children's hospitals are committed to keeping kids safe. Here are some of the ways children's hospitals are making a difference.

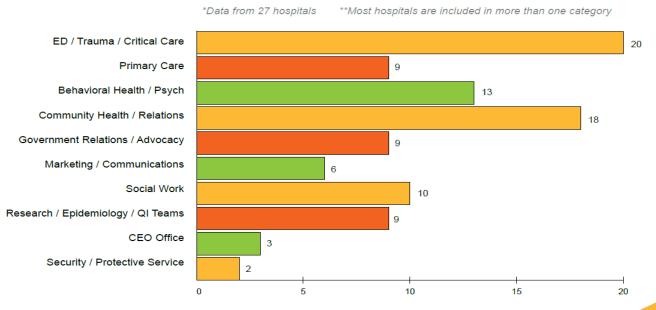
38 children's hospitals

>250 firearm injury prevention activities



Nearly half of respondents (44%) have a dedicated firearm injury prevention team

Where firearm injury prevention work sits within respondents' organizational charts





Promote safe firearm storage.



Adopt hospital-based violence intervention programs.



Serve as firearm safety educators.



Participate in community-based violence prevention work.



Conduct firearm injury prevention research.

Learn more about prevention efforts at

childrenshospital.org/firearmsafety



Kelsey A.B. Gastineau, MD, MPH, FAAPAssistant Professor of Pediatrics
Division of Hospital Medicine





Keeping Kids Safe: Advancing Pediatric Firearm Injury Prevention

CHA Webinar Kickoff

Kelsey A.B. Gastineau, MD, MPH, FAAP

Assistant Professor of Pediatrics Division of Hospital Medicine

Kelsey.Gastineau@vumc.org

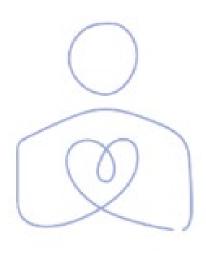




@KBGastineau



Prioritize your well-being during our discussion



- Our discussion will include content related to firearm injuries and violence, which may be distressing for some individuals.
- If at any point you feel overwhelmed, you are encouraged to step away or pause involvement the conversation as needed.
- Your mental and emotional health are important, and we are here to create a safe, respectful, and supportive environment.

Objectives

1

Describe the impact of youth firearm injury in the US

2

Analyze multiple
firearm secure storage
solutions through
case-based scenarios
to develop familycentered strategies

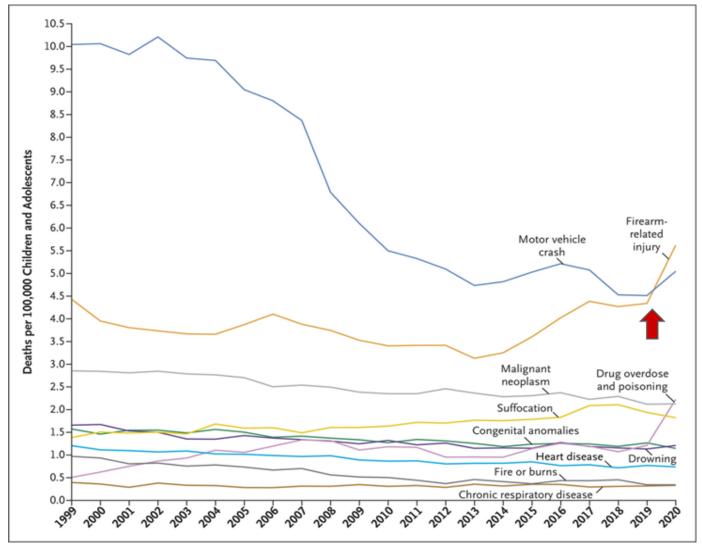
3

Implement evidence-based, practical approaches for secure storage through family-centered counseling





Firearms are the LEADING CAUSE of death for CHILDREN in the US



Leading Causes of Death among Children and Adolescents in the United States, 1999 through 2020.



Firearm Injuries in US Youth



In 2023, 4470 children and teens (age 0-19) died due to firearm injuries



From 2018 to 2021, there was a 41.5% increase in pediatric firearm death rate



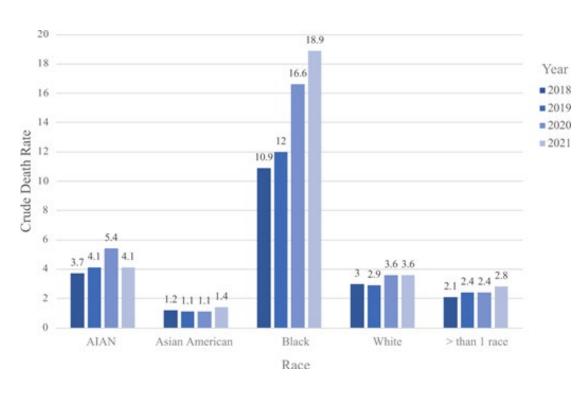
For every child who dies due to a firearm, at least 2-3 are injured



Nearly 50% of children hospitalized after a firearm injury sustaining a long-term disability



Disparities exist at the level of age, gender, race, and region



2018

Rate
13

8

1

2020

Rate
18

8

1

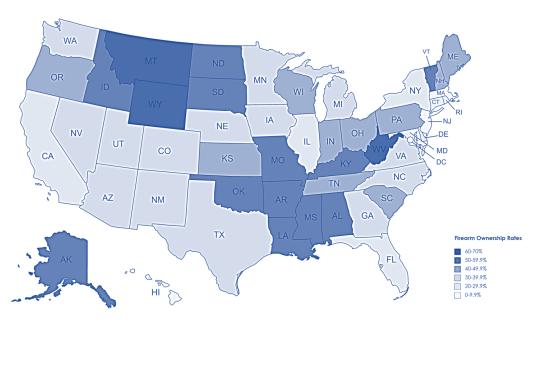
Abhelvite number of death ~20, unecliable nate of deat

Pediatric firearm mortality by race

Pediatric firearm mortality rate by state and year



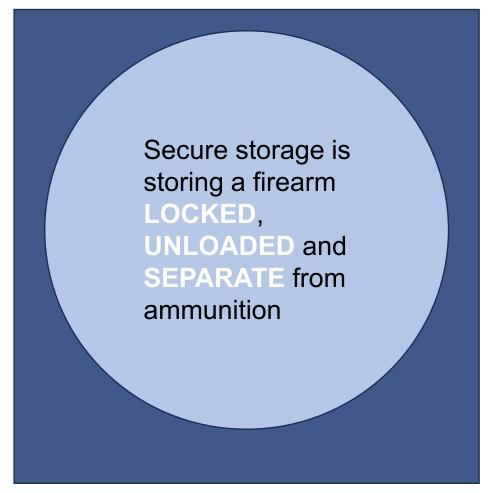
4.6 million children in the US live in a household with at least one loaded, unlocked gun

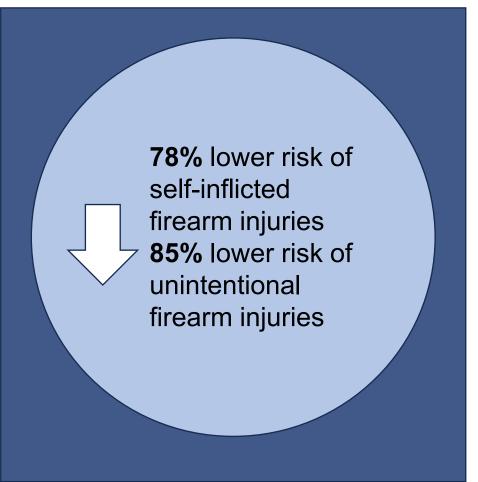


eated with mapchart.net



Secure storage reduces risk of injury







Case 1: Isaiah

- Five-year old Isaiah was playing hide-and-seek with his older cousin at his grandmother's house. While hiding under the bed, he found a loaded handgun in an unsecured shoebox. Not understanding the danger, he picked it up— and it discharged.
- Thankfully, the bullet missed major vessels and ones, but Isaiah required surgery, a hospital stay, and follow-up care.

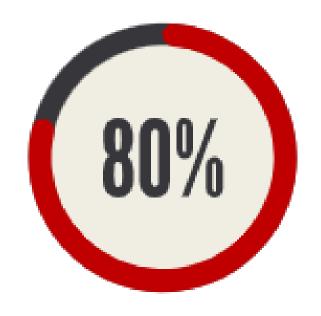




Case 1: Curiosity is natural. Access shouldn't be.

- Prevention method: Cable lock or Biometric safe
 - Cable locks are an easy, inexpensive storage solution
 - A biometric safe, which only opens with a fingerprint scan, would have ensured that Tarin could not access the firearm. This type of safe provides quick access for authorized users while keeping the gun secure from children and unauthorized persons.
- Key Message: This injury could have been prevented if the firearm had been secured with a <u>cable lock</u>, making it inaccessible and inoperable by a child. Advanced storage solutions like <u>biometric</u> <u>safes</u> provide both security and accessibility. They are especially effective for families with school-aged children who may be more inquisitive and prone to exploring their environment.





Of unintentional shootings by children, **80%** occurred in a home or vehicle

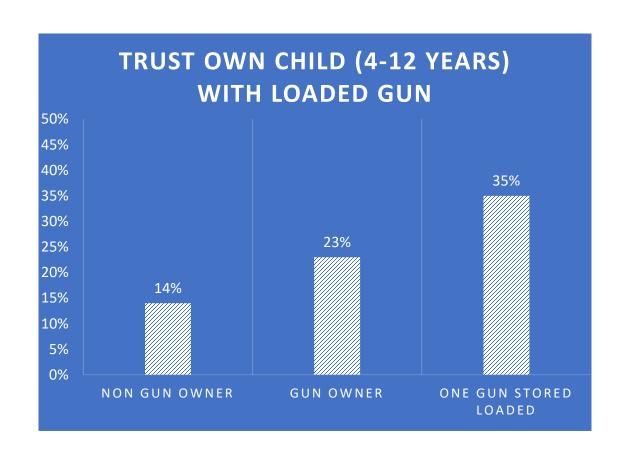
Secure Storage Saves Lives

If 1 in 2 homes with children went from unsecured to secured storage, over 250 youth deaths could be prevented

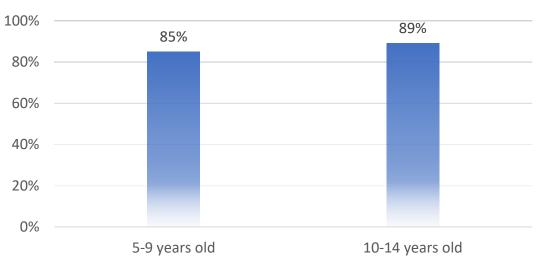




Parental Beliefs of Their Children's Behavior Around Firearms



PARENTS BELIEF THAT THEIR CHILD WOULD NOT TOUCH A GUN, LEAVE, AND TELL AN ADULT



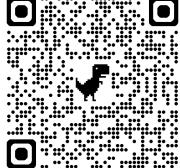
















Device	Description	Pros/Best Uses
Cable Lock	Prevents firearm from being loaded or fired	Free & widely distributed
Trigger Lock	Covers trigger mechanism	Backup for other methods
Lock Box	Portable, quick- access, key or combo	Pistol storage
Gun Safe	Heavy-duty, larger capacity, high security	Long guns or multiple firearms
Biometric Safe	Uses fingerprint scan	Fast access, home defense





Device	Description	Pros/Best Uses
Cable Lock	Prevents firearm from being loaded or fired	Free & widely distributed
Trigger Lock	Covers trigger mechanism	Backup for other methods
Lock Box	Portable, quick- access, key or combo	Pistol storage
Gun Safe	Heavy-duty, larger capacity, high security	Long guns or multiple firearms
Biometric Safe	Uses fingerprint scan	Fast access, home defense





Device	Description	Pros/Best Uses
Cable Lock	Prevents firearm from being loaded or fired	Free & widely distributed
Trigger Lock	Covers trigger mechanism	Backup for other methods
Lock Box	Portable, quick- access, key or combo	Pistol storage
Gun Safe	Heavy-duty, larger capacity, high security	Long guns or multiple firearms
Biometric Safe	Uses fingerprint scan	Fast access, home defense





Device	Description	Pros/Best Uses
Cable Lock	Prevents firearm from being loaded or fired	Free & widely distributed
Trigger Lock	Covers trigger mechanism	Backup for other methods
Lock Box	Portable, quick- access, key or combo	Pistol storage
Gun Safe	Heavy-duty, larger capacity, high security	Long guns or multiple firearms
Biometric Safe	Uses fingerprint scan	Fast access, home defense





Device	Description	Pros/Best Uses
Cable Lock	Prevents firearm from being loaded or fired	Free & widely distributed
Trigger Lock	Covers trigger mechanism	Backup for other methods
Lock Box	Portable, quick- access, key or combo	Pistol storage
Gun Safe	Heavy-duty, larger capacity, high security	Long guns or multiple firearms
Biometric Safe	Uses fingerprint scan	Fast access, home defense

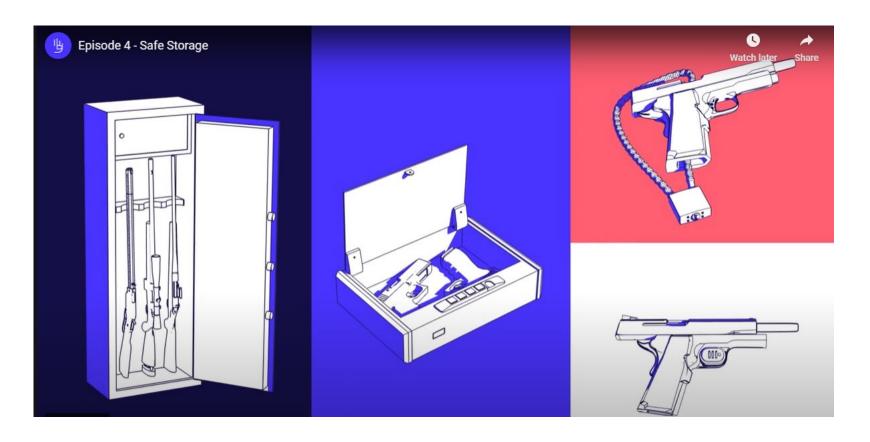


Device	Description	Pros/Best Uses
Cable Lock	Prevents firearm from being loaded or fired	Free & widely distributed
Trigger Lock	Covers trigger mechanism	Backup for other methods
Lock Box	Portable, quick-access, key or combo	Pistol storage
Gun Safe	Heavy-duty, larger capacity, high security	Long guns or multiple firearms
Biometric Safe	Uses fingerprint scan	Fast access, home defense



Secure Storage Device Refresher







Which Device is Right?

Match device to context:

- Curious toddlers → lockboxes or safes
- Teens in distress → biometric safe or remove from home temporarily
- Frequent visitors or storage outside the home → travel lockboxes

Where to purchase:

- Available at gun retailers, sporting goods stores, online.
- Some local law enforcement agencies offer free or discounted devices.
 - Tennessee has no sales tax on storage devices!
- In most states, firearms are sold with a safe storage device unless the buyer proves ownership of a state-approved safe.

Gun Store Transparency Project

The largest database of ATF inspection reports ever released to the public.





Case 2: Jaden

- Jaden was a 15-year-old honor student and football player. After a fight with his girlfriend and an argument with his parents, Jaden locked himself in his room. He found a handgun in his father's nightstand — loaded and unlocked.
- Within moments, a temporary crisis became irreversible: Jaden died by suicide with that firearm.
- When asked, his parents say, "We had no idea he even knew it was there."



Case 2: Impulse meets access

- Prevention Method: Gun Safe
 - Jaden had easy access to an unsecured firearm, which facilitated his impulsive act.
 Adolescents have a predilection for impulsive behavior, and access to a firearm can
 turn a fleeting thought into a fatal action. Gun safes provide a robust barrier against
 unauthorized access, offering crucial protection especially for families with teenagers
 who may be experiencing emotional or psychological challenges.
- **Key Message**: Families may be unaware of mental health struggles, highlighting the importance of limiting accessibility to firearms that can make a moment of crisis result in a fatal outcome. Gun safes are essential for preventing unauthorized access by older children and teenagers.



The difference 60 minutes makes



90% of those who survive a suicide attempt don't go on to die by suicide 70% never make another attempt

Gun Storage Practices in Youth Firearm Fatalities

10-14-year-olds					
Suicide	Locked	Unlocked			
Unloaded	15%	38%			
Loaded	5%	42%			
Unintentional	Locked	Unlocked			
Unloaded	3%	10%			
Loaded	13%	75%			

15-19-year olds					
Suicide	Locked	Unlocked			
Unloaded	20%	39%			
Loaded	6%	35%			
Unintentional	Locked	Unlocked			
Unloaded	10%	17%			
Loaded	7%	66%			



Prevention is Possible

Treatment, Tools, and Techniques that Work



Counseling Improves Secure Storage

Barkin et al, Pediatrics 2008

- Design: Cluster RCT of 137 pediatric primary care patients
- Intervention: Counseling + free firearm safety device (lock)
- **Findings:** Substantial increase in secure storage for the intervention group (9.7%) and a decrease for the control group (-11.70%; P < .001). For every 2.5 patients for whom parents report gun ownership, 1 patient-family will report use of cable locks for safer firearm storage.
- Runyan et al., Injury Prevention, 2005
 - **Design:** ED-based RCT of families with suicidal youth
 - Intervention: Lethal means counseling by social worker or nurse
 - Finding: Families who received counseling were twice as likely to limit firearm access at home



Families appreciate and desire information

- The majority of parents agree pediatricians should ask about guns in the home (66%) and advise of secure storage (75%)
 - 71% of gun owners agree
- Recent polling of Tennessee parents found:
 - 87% of Tennessee parents believe firearms should be securely stored in a lockbox or safe.
 - 60% of parents express interest in secure firearm storage education.

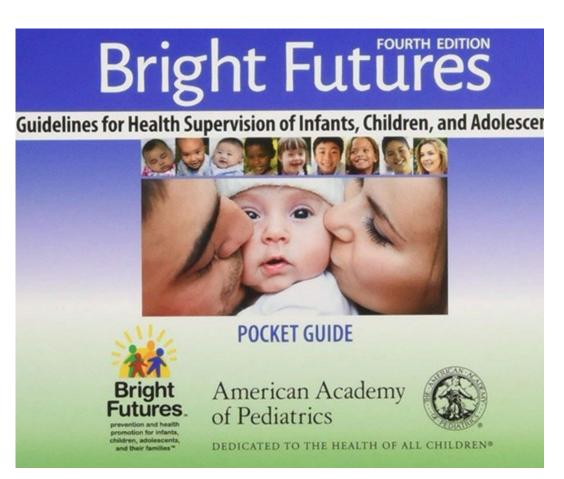
"If a pediatrician advised me to not have any firearms in the home for child safety, I would...'

	Overall	Gun Owners
Think It Over	48%	49%
Follow the advice	35%	14%
Ignore the advice	11%	22%
Be offended	8%	14%



How do physicians do with counseling?

- Less than 20% of pediatricians report routinely counseling families about firearm safety
- Even when firearms are present in the home, only about 15–30% of families receive secure storage counseling
- 88% of physicians believe firearm injury is a public health issue — but fewer feel prepared to counsel





Pediatricians agree we should provide firearm counseling, but report common barriers



Time



Lack of training



Uncertainty of the effect



Similar barriers were reported among CHA attendees







Family receptivity, language, comfort, psych consult availability, systems/bureaucracy, liability



Time to face our fears



Words matter

Use the term "firearms" opposed to "gun"

"Do you prevent access of your firearms by unauthorized individuals?"

Affirm good intentions with a child's instruction + encourage safe storage

Discuss secure storage in the context of other safety concerns

Tailor your counseling to the siutation and the family

Offer a nonjudgemental and collaborative approach



Try out these phrases

"Let's talk about how to keep your child safe this summer, thinking about: pools, bikes, and firearms. Can you tell me what you all are doing for pool safety. Does Ben have a bike helmet he uses? If there are firearms in the home, can you tell me how they are stored?"

"Annie is getting older into her teenage years which comes with lots of fun, but some new challenges. Let's talk about ways to keep her safe during this phase. How is driving going? What steps are you taking to prevent unauthorized access to firearms?"



Ummmm, is this legal?





Ummmm, is this legal?



- No state currently has a law to restrict healthcare providers' conversations with families about secure storage
- Not mandated to report unless imminent risk



AAP has free training opportunities

ONLINE COURSE

CALM for Pediatric Providers: Counseling on Access to Lethal Means to Prevent Youth Suicide





CALM for Pediatric Providers: Counseling on Access to Lethal Means to Prevent Youth Suicide

MOC

AVAILABLE:

07/28/2022 - 07/27/2025

DESCRIPTION & LEARNING OBJECTIVES | CREDIT INFORMATION | REGISTRATION FEES | COURSE DETAILS | TECHNICAL REQUIREMENTS

FORMAT:

Online Course



Safer: Storing Firearms Prevents Harm





Empower Parents to A.S.K

Talk to your children about gun safety.

Teach children to not touch guns and go find an adult right away if they find one.



Before dropping your child off at someone else's house, ask the adult in charge about:



Allergies



Pets



Internet Access



Adult Supervision



Gun Storage







One quick question that we ask all families before our kids go to hang out for the first time....If your family owns firearms are they all securely stored and inaccessible to kids? From both my work and volunteer work I know far too much about the risks not to ask. Thanks for understanding!

Hi! Thanks for asking. We do not own any firearms. This is a fantastic question and I am going to start asking it as well.

You are good to ask this questions. We are very committed to firearm safety and gun control. Nothing unsecured in our home.

No guns! Appreciate that you would ask. That's an incredible question that I need to keep in mind for my own boys!

Hey, no apologies at all!! We also take gun safety very seriously in our home. We do not have any unsecured guns in our home. All but my 8 year old have taken the hunter safety course in our house. Please let me know if you have any other questions or concerns.

No we don't but I understand the concern and appreciate your asking. We have no firearms and we will do all we can to ensure clean safe fun. It takes a village.

Thank you for asking! I completely understand. My husband is active duty military so we know all too well how critical this question is. My husband has a weapon for work but our children do not know he stores it here. It is stored (without ammo) in an inaccessible spot inside a wall and inside a safe that only can be opened by his fingerprint. He only uses it for deployment training. Hope that helps reassure you!

We do have guns. They are ALL LOCKED up with fingerprint only on the safe 60

Oh great question! We have ZERO unsecured weapons in our home. Appreciate you asking!





WELCOME TO





We're so excited to have you! Heres some in that may be helpful to feel comfortable and safe-- especially with kiddos in tow!



MEET EMERSON KAY

Our pup is very sweet--she doesn't bite but does give kisses (even in the mouth).

#1 House Rule: If you get ice, Emmy gets ice.

She's got a special diet so please don't feed her food not given by us. We don't have a fence, she's on a leash or closley supervised outside.

SAFETY NOTES

We don't have outlet covers but do have a few cabinet locks.

Medicines are stored in the primary bathroom closet.

We are a gun-free house. If you have one, you can store it securely in the neighbor's house.



The neighbors have a pool (yay! but it is unfenced). Bug spray and sunscreen are in the mud room.



FOOD & DRINK

All food is community food- help yourself!
Kids' dishes are in the lower middle cabinet along the kitchen wall.
We have a garbage disposal, but we're on septic so please be gentle!

No recycling, sadly. All trash can go in the main bin.

CLEANING STUFF

Vaccum and mop are in the closet by the stairs.

Other cleaning supplies live under the kitchen sink.

Washer and dryer are in the mud room (intructions self-explantory).

Extra towels, toilet paper, etc are in the closets in the mud room.



CONTACT INFO

Practicing What I Preach

SAFETY NOTES

We don't have outlet covers but do have a few cabinet locks.

Medicines are stored in the primary bathroom closet.

We are a gun-free house. If you have one, you can store it securely in the neighbor's house.

The neighbors have a pool (yay! but it is unfenced). Bug spray and sunscreen are in the mud room.





MCJCHV offers free cable gun locks to everyone, no questions asked







14 yo Drew comes to the ED with a forearm laceration he got from a fight in school

Drew is accompanied by his aunt. He appears quiet but cooperative. During routine psychosocial screening, the ED team uses the SaFETy score to assess risk of future violence involvement. The questions and his responses are as follows:

S (Serious fighting): "Have you been in a serious physical fight in the past 6 months?" → Yes, Twice (1 point)

F (Friend weapon carrying): "How many of your friends carry weapons like guns or knives?" → Some (0 points)

E (Environment): "Do you hear gunshots in your neighborhood?" → Yes, many times (1 point)

T (Threats): "How often, including today, in the past 6 months has someone pulled a gun on you?" → Once (3 points)

Total SaFETy Score: 5 (High Risk)

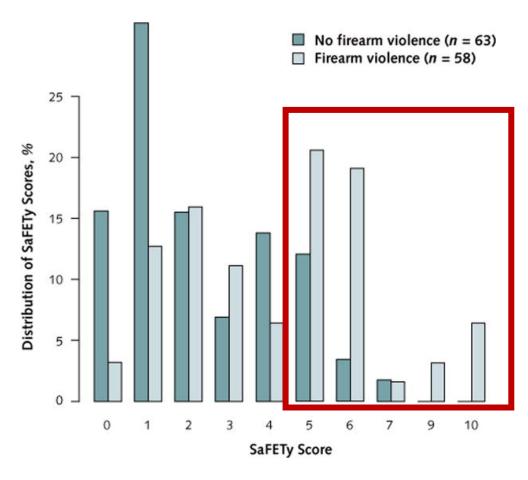


Identify Risks and Connect to Resources

Rules for Calculation of the SaFETy Score

Mnemonio	Category	Question/Scale Levels	SaFETy Contribution	
S	Serious Fighting In the past 6 mo, including today, how often did you get into a serious physical fight?			
		0 (never)	0	
		1 (once)	1	
		2 (twice)	1	
		3 (3-5 times)	1	
		4+ (6 or more times)	4	
F	Friend Weapon Carrying How many of your friends have carried a knife, razor, or gun?			
		1 (none)	0	
		2 (some)	0	
		3+ (many, most, or all)	1	
E	Community Environment In the past 6 mo, how often have you heard guns being shot?			
		0 (never)	0	
		1 (once or twice)	0	
		2 (a few times)	0	
		3 (many times)	1	
Т	Firearm Threats	How often, in the past 6 mo, including today, has someone pulled a gun on you?		
		0 (never)	0	
		1 (once)	3	
		2+ (twice or more)	4	





Distribution of SaFETy scores among youth with and without firearm violence during the follow-up period in the validation data.



Prevention is Possible

Next Steps:

- The ED provider discusses the score with Drew and his aunt using trauma-informed, nonjudgmental language.
- A social worker is consulted to provide immediate crisis support and assess safety at home and school.
- Drew is referred to the hospital's violence intervention program for ongoing case management, peer support, and mentorship.
- The family is offered secure firearm storage counseling and a free lockbox after disclosing that a firearm is kept in the home for protection.

This brief 4-question screening tool identified a high-risk youth not initially flagged by the injury itself. With less than 2 minutes of screening, the team was able to:

- Detect potential risk for retaliation or future violence
- Offer emotional support and services
- Potentially prevent future injury or death



Clinical Approaches to the Prevention of Firearm-Related Injury

Authors: Patrick M. Carter, M.D., and Rebecca M. Cunningham, M.D.



Table 1. Sample Prompts for Initiating Discussions around Firearm Safety with Older Adults, Youth, and Patients at Risk for Intimate Partner Violence or Suicide.*

Patients at risk for firearm suicide with known household firearm access

"Lots of people have guns at home. Some will store their guns outside of their home temporarily, such as at a relative's house or gun shop, until they are feeling better. What do you think about a strategy like that?"²⁴

"When people are feeling depressed or down, sometimes they temporarily store their firearms outside of the home.

What would your plan for temporary storage look like if you or someone else felt down or was struggling?" 64

"What ideas do you have about ways to increase your safety in case you have suicidal thoughts?"

Older adults with firearm availability or access

The "5 Ls" tool provides a framework for asking about factors specific to older adults when screening for firearm availability.⁶⁵

- Is it LOADED?
- 2. Is it LOCKED?
- 3. Are LITTLE children present?
- 4. Is the operator feeling LOW?
- 5. Is the operator LEARNED? (i.e., is the person knowledgeable about how to use the weapon, or does the person possibly have dementia)

Identifying risk of firearm violence among youth (14-24 yr of age)

The SaFETy score predicts the 2-year risk of being an aggressor or victim in an incident of firearm violence.⁶⁶ In the past 6 months:

Serious fighting: "How often did you get into a serious fight?"

Friend carrying a weapon: "How many of your friends have carried a knife, razor, or gun?"

Community Environment: "How often have you heard guns being shot?"

Firearm Threats: "How often has someone pulled a gun on you?"

Identifying risks of intimate partner violence

The five-item Danger Assessment Screen is used to predict intimate partner homicide or the risk of severe injury from intimate partner violence. 96,97

"Has the physical violence increased in severity or frequency over the past year?"

"Has your partner (or ex) ever used a weapon against you or threatened you with a weapon? If yes, was the weapon a gun?"

"Do you believe your partner (or ex) is capable of killing you?"

"Has your partner (or ex) ever tried to choke/strangle you/cut off your breathing?"

"Is your partner (or ex) violently and constantly jealous of you?"

* Prompts can be used to initiate a screening discussion or as part of a general discussion of firearm safety with patients in a clinical setting. See Tables S3 through S5 in the Supplementary Appendix, available at NEJM.org, for additional information regarding screening tools, including the use, scoring, derivation, and performance characteristics of the tools described as well as an additional firearm-specific screening tool (FIGHTS score)⁶⁷ to assess the risk of adolescent firearm carriage.



SMART.



Secure

All guns in your home and vehicle



ModelResponsible behavior



Ask

Unsecured guns in other homes



The role of guns in suicide

Recognize



TellYour peers to
Be SMART



GUN STORAGE FOR YOUR LIFESTYLE

As a gun owner, you can choose from multiple options for safely storing and protecting your firearms when they're not in use.

Use this guide to determine which mechanism best suits your lifestyle, priorities and environment.



CABLE LOCK

GUN CASE

A cable lock can be used on most firearms, allows for quick acess in an emergency and offers security from theft. The cable runs through the barrel or action of a firearm to prevent it from being accidentally fired, requiring either a key or combination to unlock it.



AFFORDABLE



PORTABLE FROM DAMARE

a gun case is an affordable solution available in a variety of materials including plastic, fabric or metal. Be sure to lock it with an external device



For those looking to conceal, protect or legally transport a registered firearm

LOCK BOX

With integrated locks, storage boxes provide reliable protection for firearms, and allow gun owners to legally transport them outside of their home.

PORTABLE

ACCESSIBLE A PROTECTS

PORTABLE





ELECTRONIC LOCK BOX

Electronic lock boxes are an effective way to store or legally transport firearms, and they also prevent theft since only the person with the code can access the contents. Some electronic lock boxes are specially designed for quick access to stored firearms.





A gun safe protects its contents from the elements and allows owners to



A PROTECTS

safely store multiple firearms in one place. Gun safes of all sizes are now available with biometric options to ensure only certain people have access



CONSOLE STORAGE Price Rance: \$250 - \$300

A solution for those who need a truly secure

place to store their frearm in a vehicle. concealment to deter prying eyes and would-be thieves. Various access options



CARGO AREA STORAGE rice Runge: \$500 - \$1500

ffective for transporting finearms to the ange or field, cargo area storage models reallable for sedans. SUVs and trucks These devices allow for locked storage, oncealment and protection from bump



and alert you if anyone is accessing your storage levice or handling your firearm without your uthorization. Some sound an audible alarm thers can be connected to your smartphone



WIRELESS GUN SAFE MONITOR



Electronic holsters are a new type of secure storage rice that enable fast access along with security to went unauthorized access. Holsters can be ated or used independent of a mounting system and eature a programmable finger or thumburint scan



@ PORTAGLE @ ACCESSINE @ THEFT DETROGRAY

PLEASE HELP PREVENT ACCIDENTS. FIREARMS

RESPONSIBLY.

few of the storage options available to firearms owners. of security, consider using a combination of safety mechanisms members about handling firearms

Project ChildSafe

is a program of the

National Shooting

Sports Foundation®

NSSF

Education **Options**

Practice safer storage in your household by storing your firearm:

Unloaded

#SaferStorage



Separately from ammunition





Locked up, away,

and out of sight

Firearm Safety for Parents of Teens

Here are some tips to keep teens safe around firearms.



Safety training and parental supervision always, and don't let their friends handle the firearm.



Parents must control gun access until age 18 (at least).



Use a gun lock and/or gun lockbox. It can save a life!

Guns are the leading cause of death in teens through suicide or used against others.



American Academy of Pediatrics

In-Home Options

Cable Lock

Braided steel threaded through firearm to prevent chambering a round, engaging the slide, or loading a magazine; secured with key or combination lock.

Two-part (or one-part clamshell)

trigger or over the trigger guard to

(e.g., fingerprint) to restrict access.

Gun Safe or Cabinet

Smart Guns

Uses biometrics

(e.g., fingerprint) or

Firearm Disassembly

Disassembly into

component parts:

removal of key

prevents use.

other technology (e.g.,

RFID) to ensure only authorized

users can discharge the firearm.

Stores one or more firearms

using a key, combination

lock, keypad, or biometric

security (e.g., fingerprint) to restrict access.

device that attaches behind the

Trigger or Clamshell Lock



Pros · Low cost

- · Single or multigun configurations
- · Compatible with most firearms
- · Cannot be installed on a loaded firearm

· Cable can be cut with tools · Some patients may be concerned about

Cons

- · Compatible with most firearms
- · Secured with combination lock, key, or prevent the trigger from being pulled. Secured with combination lock, key, or biometrics.
- · Blocks trigger but increases the risk of injury if placed on a loaded firearm

the potential of damage to the firearm

- · Can be used in multiple settings (e.g., car)
- Stores one or more handguns using a key, combination lock. keypad, or biometric security
- - · Smaller than a gun safe
 - · Biometric versions allow rapid access
- · More expensive than cable or trigger · Electronic versions require batteries

· Large size may limit use in small homes or

· Does not limit an owner's access; consider

- · If portable, it could be stolen

· Can store multiple firearms · Expensive

- · Fits long guns and handguns
- · Frequently changing lock combination or storing keys outside of the home further reduces
- · Uses key, combination lock, or biometric devices
- · No keys or codes

· Increases the time before the firearm can be

· The risk of the firearm being used is further

· Several states have maps detailing potential

· In some states, a background check is not

· Depending on the state, a background check

because facilities often have 24-hour access

may not be required for firearm storage

· Firearm owners may prefer this option

required for locker access when the owner holds

reduced when disassembly is paired with the

· Prevents use of firearm by nonauthorized user

used (i.e., requires reassembly)

removal of key parts

storage locations

- · Prevents theft
- · High cost

risk of self-harm

· Limited availability

- · If the purpose of ownership is self-defense, the patient may be resistant owing to concerns about technology failure
- · If not paired with removal of key parts, the

firearm can be reassembled

· If the purpose of ownership is self-defense. the patient may be resistant to practice disassembly because it limits immediate use

· Costs may be high for regular storage

· Some states require a background check

· Renting the entire storage unit may be

· Opportunity for self-harm is not limited

for an owner at increased risk who has 24-hour access to the storage facility · Patients should be advised not to arrive

· Not available everywhere

to store or retrieve firearm

Out-of-Home Options

elements (e.g., firing pin)

Storage Locker at a Business (Shooting Range, Sports Club, Firearm Seller)

Many allow locker storage for a fee. Background check requirements vary by state, by type of storage, and on whether ownership is transferred.

Self-Storage Rental Units

Many allow firearm storage. Most require rental of entire unit, although some have storage drawers or bins available

Existing Armories

background check.

Some will provide temporary storage for safety. Options include law enforcement, armories (e.g., National Guard).

Some provide monetary loan in exchange for the firearm. The owner may retrieve the firearm by

paying back the loan with interest and passing a

· Some will offer free storage services and will pick up firearms at the home for storage

· Owner maintains control over retrieval time

· Cost may be lower depending on interest fees

- · May offer firearm-disposal services
- · Patient may not trust law enforcement
- unannounced with their firearms · Background-check requirements and
 - disposal services vary
 - · Depending on the contract, the owner may forfeit the firearm after a period of time



We can lead the elimination of youth firearm injuries.

- 1. Youth Firearm Injury is a Public Health Crisis
 - Firearms are the leading cause of death for youth in the US and many states.
- 2. Secure Firearm Storage is Proven to Reduce Risk
 - Storing firearms locked, unloaded, and separate from ammunition reduces suicide risk by up to 78%.
- 3. Clinicians Can Champion Change
 - Become a champion in your unit or clinic
 - Advocate for device funding
 - Partner with community programs
 - Lead a QI project
 - Join or start an HVIP or violence prevention task force



References

- 1. Goldstick JE, Cunningham RM, Carter PM. Current Causes of Death in Children and Adolescents in the United States. *N Engl J Med*. Published online April 20, 2022:NEJMc2201761. doi:10.1056/NEJMc2201761
- 2. CDC. National Centers for Injury Prevention and Control, Web-based Injury Statistics Query and Reporting System (WISQARS) Fatal and Nonfatal Injury Reports. Data from 2021.
- 3. DiScala C., Sege R.: Outcomes in children and young adults who are hospitalized for firearms-related injuries. *Pediatrics*. 2004; 113: pp. 1306-1312.
- 4. Grinshteyn E, Hemenway D. Violent death rates in the US compared to those of the other high-income countries, 2015. *Prev Med.* 2019;123:20–6. doi.org/10.1016/j.ypmed.2019.02.026.
- 5. Spears M. Firearm-Related Deaths in Tennessee. The Sycamore Institute. Published Online June 26, 2023. www.sycamoreinstitutetn.org/wp-content/uploads/2023/06/2023.06.26-FINAL-Firearm-Related-Deaths-in-Tennessee.pdf
- 6. Roberts BK, Nofi CP, Cornell E, et al. Trends and Disparities in Firearm Deaths Among Children. *Pediatrics*. 2023;152(3):e2023061296
- Song Z, Zubizarreta JR, Giuriato M, Koh KA, Sacks CA. Firearm Injuries In Children And Adolescents: Health And Economic Consequences Among Survivors And Family Members. Health Affairs. 2023;42(11):1541-1550. doi:10.1377/hlthaff.2023.00587
- 8. Azrael D, Cohen J, Salhi C, Miller M. Firearm Storage in Gun-Owning Households with Children: Results of a 2015 National Survey. *J Urban Health*. 2018;95(3):295-304.
- 9. Siegal M, Rothman E. Firearm Ownership and Suicide Rates Among US Men and Women, 1981–2013. *Am J Public Health*. 2016;106:1316–1322. doi:10.2105/AJPH.2016.303182)
- Spicer et al. Suicide Acts in 8 States: Incidence and Case Fatality Rates by Demographics and Method. Am J Public Health. 2000
- 11. A. Knopov et al. Household gun ownership and youth suicide rates at the state level, 2005–2015. *Am J Prev Med 2019*.
- 12. Anglemyer et al. The Accessibility of Firearms and Risk for Suicide and Homicide Victimization Among Household Members. *Annals of Internal Medicine*. 2014
- 13. Grossman D.C., Mueller B.A., Riedy C., et. al.: Gun Storage Practices and Risk of Youth Suicide and Unintentional Firearm Injuries. *JAMA* 2005; 293: pp. 707-714





References

- 13. Hardy MS, Armstrong FD, Martin BL, Strawn KN. A firearm safety program for children: they just can't say no. J Dev *Behav Pediatr*. 1996;17(4):216-221.
- 14. Hardy MS. Teaching firearm safety to children: failure of a program. J Dev Behav Pediatr. 2002;23(2):71-76.
- Himle MB, Miltenberger RG, Gatheridge BJ, Flessner CA. An evaluation of two procedures for training skills to prevent gun play in children. *Pediatrics*. 2004;113(1 Pt 1):70-77.
- 16. Barkin SL, Finch SA, Ip EH, et al. Is office-based counseling about media use, timeouts, and firearm storage effective? Results from a cluster-randomized, controlled trial. *Pediatrics*. 2008;122
- 17. Stipelman CH et al. Home gun safety queries in well-child vists. *JAMA Pediatrics*. 2019.
- 18. McKay S et al. Addressing Firearm Safety Counseling: Integration of a Multidisciplinary Workshop in a Pediatric Residency Program. *Journal of GME*. 2020
- 19. Betz M.E., Azrael D., Barber C., et. al.: Public opinion regarding whether speaking with patients about firearms is appropriate. *Ann Intern Med* 2016; 165: pp. 543-550.
- 20. Lee LK, Fleegler EW, Goyal MK, et al; AAP Council on Injury, Violence, and Poison Prevention. Firearm-Related Injuries and Deaths in Children and Youth: Injury Prevention and Harm Reduction. *Pediatrics*. 2022;150(6):e2022060070
- 21. Cheng T.L., DeWitt T.G., Savageau J.A., et. al.: Determinants of counseling in primary care pediatric practice: physician attitudes about time, money, and health issues. *Arch Pediatr Adolesc Med* 1999; 153: pp. 629.
- 22. Trends over 25 Years in Pediatricians' Involvement in Gun Injury Prevention. Available at: http://www.aap.org/en/research/pas-abstracts/trends-over-25-years-in-pediatricians-involvement-in-gun-injury-prevention/ . Accessed July 25, 2022.
- 23. Gastineau KAB et al. One Step Closer to Safer: Counseling Outcomes from American Academy of Pediatrics Firearm Safe Storage Education Training. *Jpediatr* 2024;264:113767)
- 24. Gastineau K.A.B., Stegall C.L., Lowrey L.K., et. al.: Improving the frequency and documentation of gun safety counseling in a resident primary care clinic. *Acad Pediatr* 2021; 21: pp. 117-123.





Acknowledgements

Children's Hospital Association
Heather Kreth, PhD
Annie Andrews, MD MSCR
Alanna Truss, PhD
Stacey Pecenka, MPH, CPH
Dave Johnson, MD
Shari Barkin, MD MSHS

Velma Murry, PhD Krista Mehari, PhD Rasheedat Fetuga, BS Gid U Youth Leaders **Everytown for Gun Safety Action Fund VUMC Office of Health Equity** Tennessee Chapter of the AAP So many friends, collaborators & confidants



THANK YOU

Kelsey.Gastineau@vumc.org



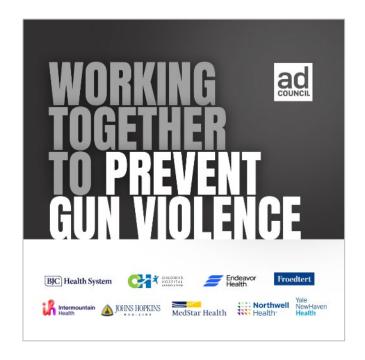


@KBGastineau



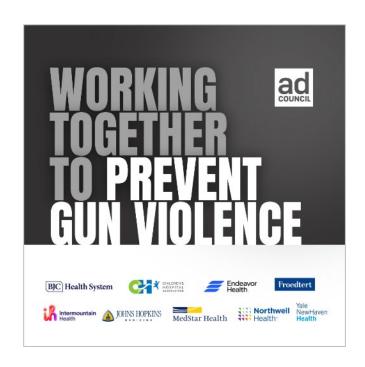
Collaborations & Resources

Ad Council, Hospital Coalition on Gun Safety





Ad Council Partnership







AgreetoAgree.org

- Learn about gun injuries
- Conversation guides
- Resources and tools
- Spread the word
 - Social media images & copy
 - PSAs & other videos
- Information geared towards:
 - Parents & caregivers
 - Concerned adults
 - Healthcare professionals (coming soon)



"We need to stop fighting about who's right and wrong and start focusing on the health and safety of our children."

AgreeToAgree.org

AGREE AGREE 8 in 10 Americans agree having more productive conversations can help reduce gun injury and death among children and teens.

AgreeToAgree.org

Source: Ad Council-Bully Pulpit International Survey, 2024.



Additional CHA Resources

- Articles sharing more indepth examples of how children's hospitals are addressing this crisis
- Including commentaries, blogs, Q&As and program overviews
- Highlighting research, policy & practice



Upcoming Webinar

Keeping Kids Safe: Implementing Firearm Safety Counseling

April 30, 2025 2 p.m. ET

Join Children's Hospital Association and Children's Hospital of Philadelphia for an overview of how health care providers can be involved in firearm safety counseling. Attendees will learn:

- The need for and efficacy of firearm safety counseling
- Advantages and disadvantages of different firearm locking devices
- Barriers and facilitators to successful hospital-based interventions
- Tips for navigating conversations about safe firearm storage



Dorothy R. Novick, MD

Attending Physician, South
Philadelphia Primary Care
Center; Practice-Based Scholar,
Center for Violence Prevention,
Children's Hospital of
Philadelphia

21

Questions



Contact Us



Kelsey A.B. Gastineau, MD, MPH, FAAP

Kelsey.Gastineau@vumc.org



Libby Ireson, MD eireson@childrensnational.org

n

Stacy Wathen

Stacy.Wathen@childrenshospitals.org



Champions for Children's Health

600 13th St., NW Suite 500 | Washington, DC 20005 202-753-5500

16011 College Blvd. Suite 250 | Lenexa, KS 66219 913-262-1436

childrenshospitals.org