

#### Unload, Lock-Up, Store Separate-Firearm Safe Storage



Dr. Keisha Fraser Doh
Pediatric Emergency Medicine Physician and Director
of ED Physician Outreach for Children's Healthcare of
Atlanta- Hughes Spalding and Egleston



## Unload, Lock-up, Store Separate-Firearm Safe Storage

#### Kiesha Fraser Doh, MD

SAFE Kids Conference

May 2<sup>nd</sup>, 2022

(Epidemiology Slides adapted from Dr. Sofia Chaudhary)

#### **Objectives**

- The participant will be able to <u>discuss the epidemiology</u> of pediatric firearm injuries in recent years.
- The learner will understand the <u>different types Child Access</u>
   <u>Protection Laws and there safe storage Implications</u>
- The participant will be able to discuss with caregivers <u>ways to</u> store firearms safely.



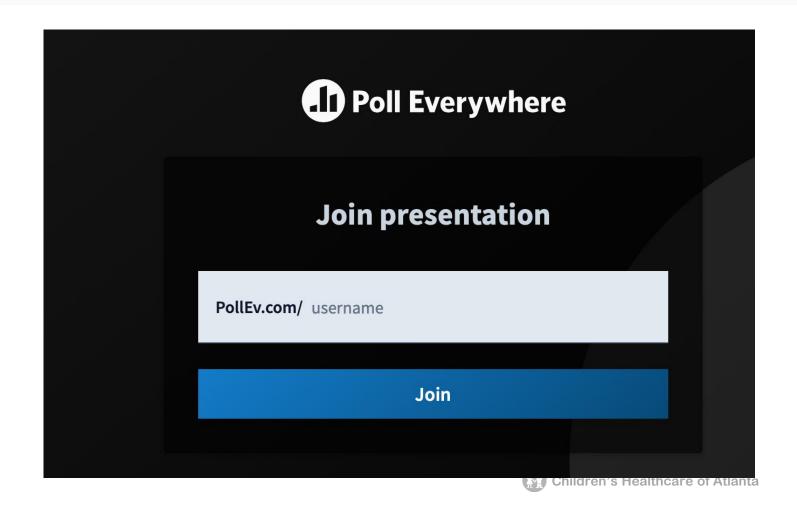
#### Unload, Lock-up, Store Separate Ammunition-Firearm Safe Storage

**Pediatric Firearm Epidemiology** 

#### **Poll Everywhere**

⊕ When poll is active, respond at PollEv.com/kieshadoh464

™ Text KIESHADOH464 to 37607 once to join



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## Do you own a firearm or where you raised with a firearm in the home?

Yes

No



# If you have a firearm have you ever been taught how to safely secure your firearm?

Yes

No

Yes but I do not own a firearm

No and I do not own a firearm

# Rank the number the top 5 current causes of death in children as of 2020?

Drug Overdose and Poisoning

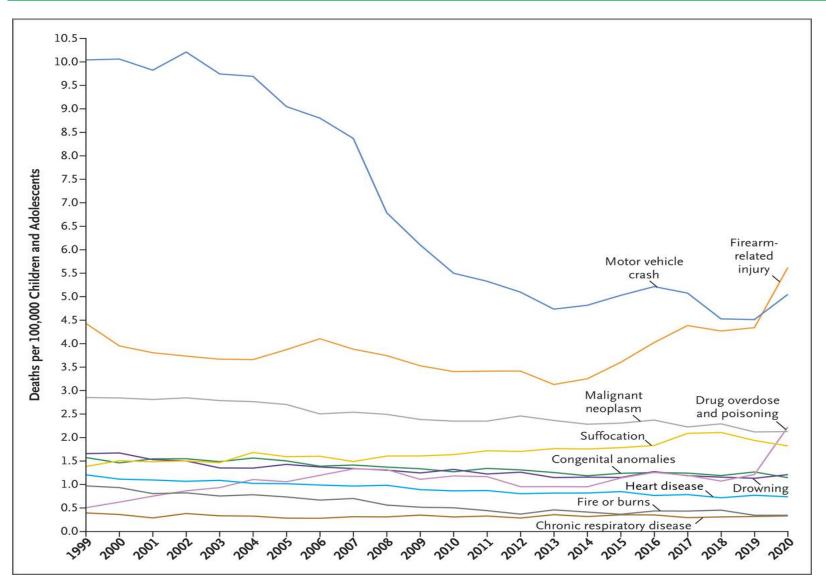
Motor Vehicle

Cancer

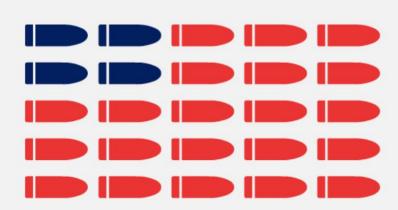
**Firearms** 

Suffocation (includes sleep-related fatalities)

#### **Current Causes of Death in Children/Teens-2020**



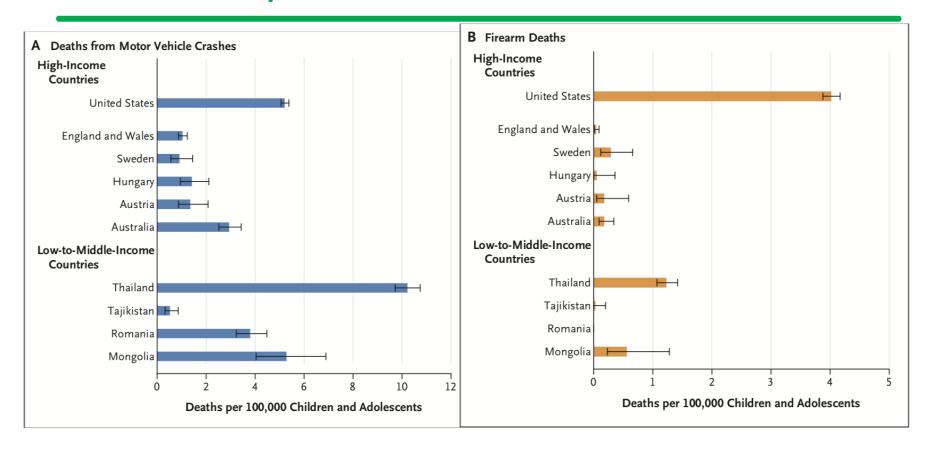
#### United States vs Other High-Income Countries



# THE US GUN HOMICIDE RATE IS 25 TIMES THAT OF OTHER HIGH-INCOME COUNTRIES

Source: Grinshteyn E, Hemenway D. Violent death rates in the US compared to those of the other high-income countries, 2015. *Preventive Medicine*, 2019.

#### **Global Comparison of Cars vs Guns**

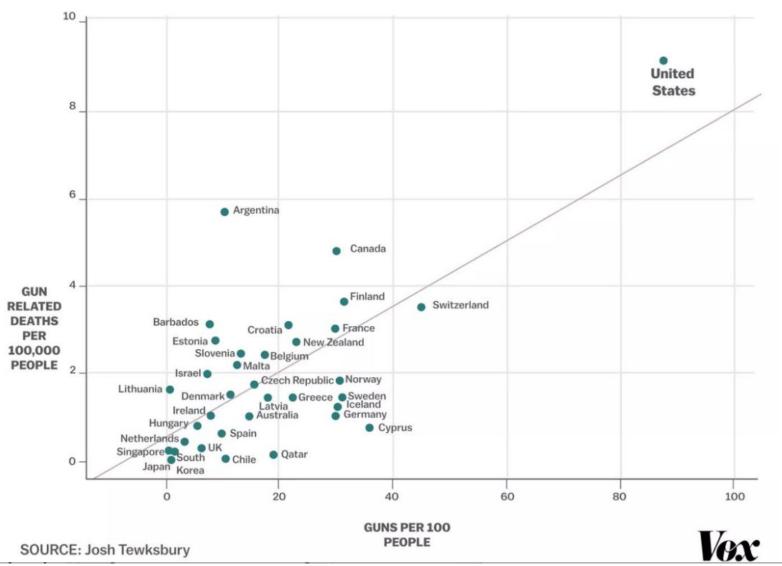


Global Comparison of Mortality for the Two Leading Causes of Child and Adolescent Death in the United States in 2016.

(Cunningham R, et al, NEJM 2018)

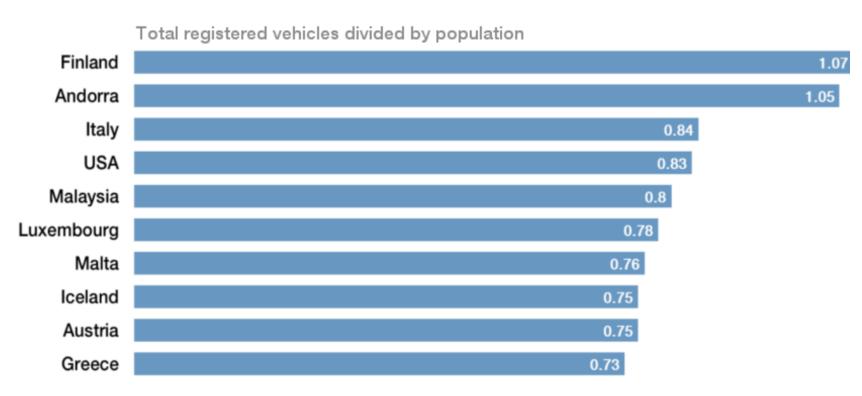


#### **Gun Ownership vs. Gun Deaths**



#### Numbers do not tell the whole story

#### These countries have the most vehicles per person

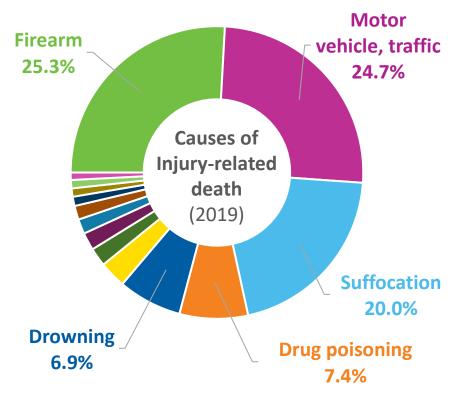


Source: WHO

#### Firearm epidemiology

Firearm injuries are the <u>leading</u> cause of pediatric death

- More than 6.5K injuries/year
- More than 1.7K deaths/year
  - 58% homicide
  - 35% suicide
  - 4% unintentional

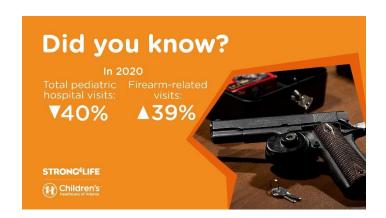


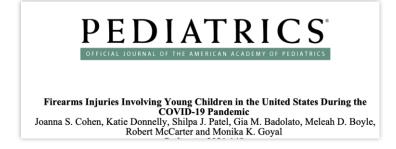
Cunningham R, J Behav Health, 2019; CDC, WISQARS, 2021; Cunningham R, NEJM, 2018; Fowler K, Pediatrics, 2017. NCHS Vital Statistics System for numbers of deaths. Bureau of Census for population estimates.

#### COVID-19 and the gun violence pandemic

- Gun sales 个
- More kids at home with access to unlocked guns
- Rise in mental health issues, 

   in domestic violence
- Unintentional firearm injuries 个
- Homicides involving children 个





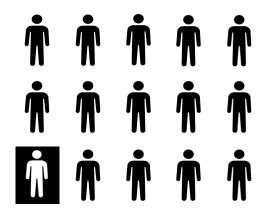
Brauer J, Small Arms Analytics, September 2020; Duncan T, Annals of Surgery, 2020; Sokol R, J Behav Med, 2021.

#### Firearm mortality risk factors

- Males
- Adolescents/teens (13 to 17)
- Living in low-income areas
- Blacks
- Homicide vs. suicide
- Urban vs. rural

Black children and teens are

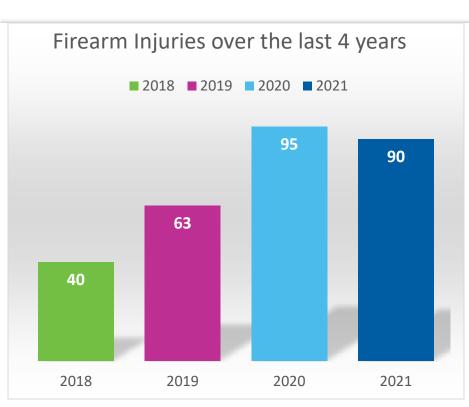
14x more likely than white
children and teens of the same
age to die by gun homicide.
CDC WISQARS, "Fatal Injury Reports 2014-2018"

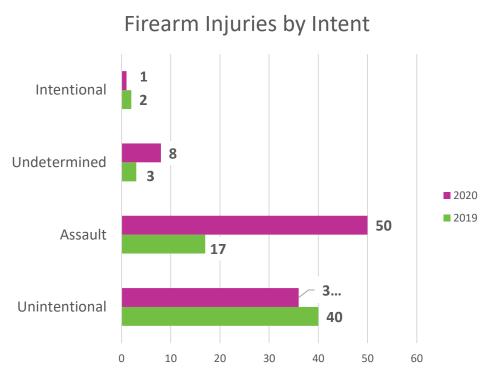


Cunningham R, NEJM, 2018; Fowler K, Pediatrics, 2017; Monteaux M, Acad Emerg Med 2016.

#### Firearm stats at Children's

In 2020, majority due to assault but ~ 40% unintentional







#### Unload, Lock-up, Store Separate-Firearm Safe Storage

**Firearm Access in Children** 

#### Gun access in the home

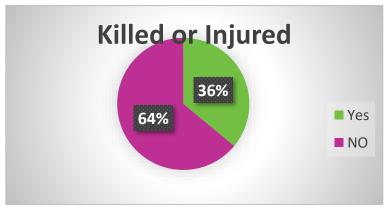
- 4.6 million kids live in a home with a loaded/unlocked gun
- Playing with a gun at home is the most frequent cause of unintentional death
- Most suicides involve a gun in the home of the victim, family or friend
- Pediatric firearm-related suicide:
  - Impulsive
  - Fatality-firearm (90%) vs. cutting/drugs (3%)



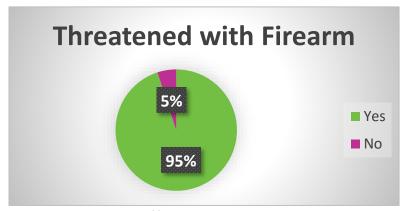
Azrael D, J Urban Health 2018; Fowler K, Pediatrics 2017; Parikh K, Hospital Pediatrics 2017; Kellerman A, NEJM 1992.

#### Rural Youth Exposure to Firearm Violence

- Survey of youth at Iowa FFA conference
  - Unlocked or loaded-→ 62% of rifles/shotguns/58% of handguns stored unlocked
  - 94% right to use firearms for hunting and shooting sports legal
  - 89% believed in firearm safety course/background check
  - 61% believed their should be safe storage laws



Personally Know of Someone....



Personally Seen Someone...



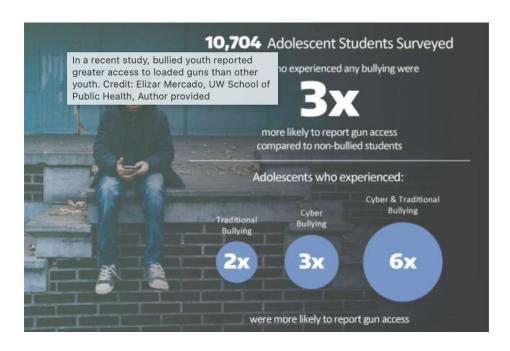
#### **Gun Access**

- Study of Colorado youth showed increased:
  - perceived access rural vs urban youth

Increased access increases thoughts of

considering suicide

Suicide attempts



#### Firearm acsess stats in Georgia

- Firearms are the **#1 cause** of pediatric death
- Gun ownership rate = 49.2%
- 1 in 3 homes with children have a gun

#### **Gun-owning parents in metro-Atlanta:**

- >50% do not store gun locked and unloaded
- 23% would trust their child with a loaded gun
- gun





CBS news; Parker K Pew Research Center 2017; Fraser Doh K, Clin Pediatr, 2020; Farah MM, Pediatrics, 1999.

# Name all of the reasons why someone may own a gun?

#### What are the reasons for gun ownership?

#### Protection



63%

Hunting





40%

Recreation or Sports



11%



Line of duty-5%

#### Increased risk for firearm access at home

The odds of a gun in the home being loaded and unlocked is higher when:

- Being used for protection.
- It is a handgun vs. a long gun.
- The owner is female vs. male.



#### Firearm access stats in Georgia

- Firearms are the #1 cause of pediatric death
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#### **Gun-owning parents in metro-Atlanta:**

- >50% do not store gun locked and unloaded
- 23% would trust their child with a loaded gun
- 75% believed child could distinguish real vs. fake gun

CBS news; Parker K Pew Research Center 2017; Fraser Doh K, Clin Pediatr, 2020; Farah MM, Pediatrics, 1999.

#### When is a good time to discuss gun safety?



#### **Situations to Discuss Gun Safety**

Risk factors (patient or family members)

**ADHD** 

**Mental Illness** 

**Mood Disorders-i.e Depression** 

Hx of violence in family

Hx of Criminal Behavior

**Bullying** 

Substance Abuse

**Dementia** 

- ER/Inpatient: Trauma, ingestion, accidents, suicide attempt
- Discharge planning



## Unload, Lock-up, Store Separate-Firearm Safe Storage

**Federal Gun Laws** 

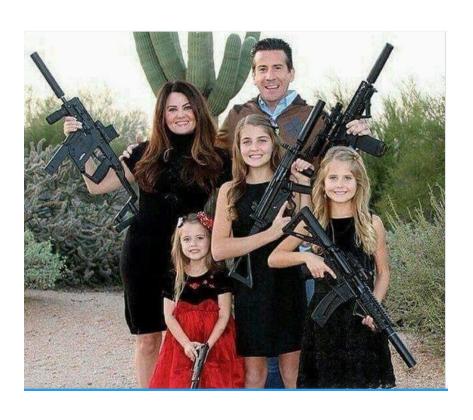
#### Minimum Age Requirements for Gun Ownership







#### What age can you own a gun?



- Federally licenses dealers CAN sell to > 21 y/o (shotgun, rifles and handguns)
- Shotguns and rifles CAN be sold to 18-20 y/o, NO handguns by federally licensed dealer
- No gun sells under 18 y/o
- Unlicensed persons cannot sell to minor
- No federal minimum age for possession of long gun

Giffords.Org

#### Minimum age requirements Impact



- Crime Control Act of 1994- <u>banned handgun purchase under 18 y/o</u> unintentional injuries and suicide death rates fell
- <u>17% of incarcerated offenders</u> would have been prohibited from buying a gun if state's minimum purchase age was 21
- 2019-28,568 young people between the ages of 10 and 21were arrested for weapons offenses-made up 26% of all arrests for weapons offenses that year
- **18-20-year old's** comprise just <u>4% of the US population</u>, but account for <u>17</u>% of known homicide offenders.

Gius, Social Science Journal, 2015, Vittes, Injury Prevention 2013, 2019 Federal Bureau of Investigation



## Unload, Lock-up, Store Separate-Firearm Safe Storage

**Child Access Protection Laws** 

#### **Child Access Protection Laws**

#### Recklessness Laws

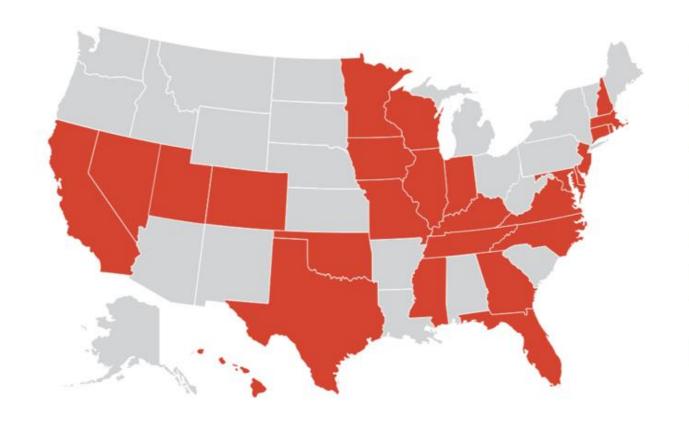
- -laws related to providing firearms to a minor
- 9 states
- Georgia weakest

#### **Negligence**

- -laws related to unsafe firearm storage
- > 16 states
- California Strongest

NO Federal CAP LAW

#### Child Access Laws



Child access
prevention laws
hold gun owners
accountable for
the safe storage of
firearms. 27 states
and DC have
enacted some
form of CAP law.

 States that have enacted CAP laws

#### Georgia-Child Access Law

- Prohibits parents/legal guardians from allowing persons <18 to possess a handgun.
- Parent/legal guardian of minor-->criminally liable knows of minor's unlawful possession of a handgun and fails to stop it
- Prohibits parent/legal guardian from intentionally, knowingly, or recklessly furnishing, or permitting a minor to possess, a handgun if aware intent to commit felony
- Prohibits giving a firearm to minor convicted of a forcible felony or misdemeanor
- Georgia law does not penalize a person who negligently stores a firearm, even if a minor gains access to it

.

### Child Access Prevention (CAP) Law-Impact on Suicide

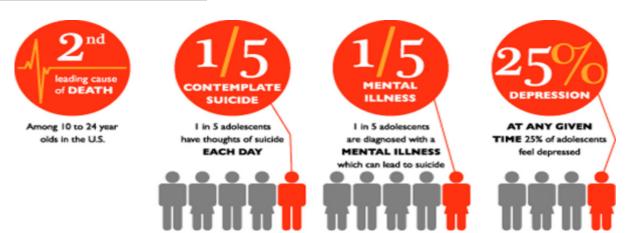
- Restrictions to those 21 y/o <u>decreased</u> overall suicide by 18.1% and 35.5% in adolescents
- States demonstrated higher suicide rates after <u>lowering</u> minimum age of gun ownership; CAP laws associated with →8.3% decrease in suicides in children 14-17



Raifman, BMJ, 2020, Giffordslawcenter.org

## Child Access Prevention (CAP) Law-Impact on Suicide

- State laws requiring locks for all handguns associated with 20% reduction in firearm suicides and reduced by 12% in states with CAP laws
- States with criminal liability associated with <u>54% reduction in</u> <u>self-inflicted injuries</u> States with safety locks associated with a 10% reduction in firearm suicides



Azad, JAMA Pediatrics, 2020, Hamilton, J Trauma Acute Care Surg 2018, Kivisto, J Am Acad Child Adoles Psychiatry, 2020

## Child Access Prevention Laws-Impact on Homicide or Assault

- States with strong firearm laws are associated with <u>lower</u> <u>firearm homicide rates</u>
- Laws that strengthen background checks and requiring permits lower homicide rates- although other sweeping reviews have differed
- Decease youth firearm carriage
- Raising minimum age not associated with lower rates of homicide
- Negligence laws 15% decreased rate of firearm homicides



## **Child Access Prevention Laws-Impact on Unintentional Injury**

- 12 states where CAP law in place for 1 year found unintentional <u>firearm deaths fell by 23% for children under 15 y/o</u>
- Most restrictive states laws imposing penalties on adults <u>59%</u> reduction in unintentional deaths
- Unintentional injury is lower for children in states in which violation of law is felony



## Unload, Lock-up, Store Separate-Firearm Safe Storage

**Firearm Safety Training** 

#### Training of future pediatric leaders

#### Pediatric resident firearm-related anticipatory guidance

#### Advice given to families

50%: Store guns unloaded & separate from ammunition

14%: Store guns in locked safe or box

#### Resident comfort with providing anticipatory guidance

69.6% Comfortable on counseling on risks of firearm ownership

15.4% Confident in ability to counsel families in use of trigger locks, storage devices

22.1% Got didactic education on gun safety, all interested in receiving education

Hoops K, Crisfasi C Preventive Medicine 2019

## How often do physicians screen for lethal means?

- ➤ 18% documentation of > 1 provider assess lethal means screen
- > 8% discussed action plans to reduce access
- > 85% of those discharged had no documentation of provider assessed access lethal means

#### Considerations for talking to families

#### When parents were asked:

- Pediatrician should ask about guns in the home (66%)
- Pediatrician should advise on safe storage (75%)
  - 71% were gun owners
- Have had a conversation about firearms with pediatrician (13%)

#### When talking to patient families about firearm safety:

- Remain neutral
- Respect gun ownership
- Focus on child safety

Garbut J, J Peds 2016.

#### **Prevention: Parental education**

#### Firearm safety counseling:

- Risks of children/teens having exposure
- Discussing with other injury risks
- Counseling + provision of safe storage device
- Asking about guns in the home of places child visits



Preventing Injuries: at home, at play and on the way.



Barkin S, Pediatrics, 2008; Simonetti J, Inj Prev 2018; Rowhani-Rahbar, Epidemiol Rev 2016.

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#### What is the safest way to store a firearm?

A Locked up and unloaded

B Unloaded, locked up with ammunition stored, separately

C Locked up and ammunition stored separately

D Loaded, locked up with ammunition

Unlocked, unloaded with ammunition



## Have you ever counciled anyone (parents, children, guardians) on safe gun storage?

A Yes

**B** No

C Maybe

# How comfortable do you feel giving parents/guardians or caregivers counseling regarding safe firearm storage?

Very Uncomfortable — 1

Uncomfortable 2

Neutral — 3

Comfortable-4

Very Comfortable — 5

#### Safe firearm storage devices and costs



#### **Trigger Lock**

~ \$12











**Cable lock** 

~ \$6

Combination lock box ~ \$20

Push Button lock box ~ \$70

Biometric lock box ~ \$80

**Gun Safe** 

~ \$800 to 1,500+

#### **CABLE LOCK**

- Inexpensive
- Through weapon/ blocks barrel or use of ammunition
- Gun must be unloaded
- Dissuade someone from taking weapon
- Distributed by federally licensed dealers with gun purchase
- Often offered free at police departments
  - (Project Child Safe etc.)
- Easy to tamper → won't deter older child or adult
- Not one size fits all (not long enough for shotgun)



#### TRIGGER LOCK

- Basic form of gun safety
- Inexpensive
- Any gun
- Fits over gun trigger and prevents firing sometimes
- Most typically a 2 piece lock-small bar through trigger guard
- Designed for unloaded guns
- If loaded gun + trigger lock can be fired
- Better deterrant for child than other adults
- Time consuming to remove



#### **LOCKBOX**

- ✓ COMBINATION LOCK
- ✓ PUSH BOX LOCK
- ✓ BIOMETRIC LOCK



- Inaccessible to children and other un-authorized users
- Some lock box have a cable lock to secure them/prevent theft
- Keys can be misplaced, stolen, copied
- Biometric-quick access
  - Some biometric locks connect with home alarms
  - Complicated set-up, tech can fail, alternative opening options

#### **GUNSAFE**

- Expensive
- Can store all types of guns
- Difficult to access
- May protect from fire
- Heavy
- Insurance discounts and often required to insure gun
- Store other valuables



#### How to start the conversation

- <u>Culturally appropriate</u> discussion
- <u>Couch</u> it with discussion on car seats, water heaters, helmet safety
- Learn
  - firearm basics
  - become familiar with risk associated
  - Safe firearm practices
- Universal counseling is best for families (assume access)
  - Families want you to ask (84—91%)
  - Remind families to ASK about storage when visiting other homes

#### Tips on counseling

#### **Bullet Point Project Quick Video**

## The BulletPoints Project

Clinical tools for preventing firearm injury

#### From ASKING SAVES KIDS DAY->>>Georgia Stay SAFE

(2016-2021)

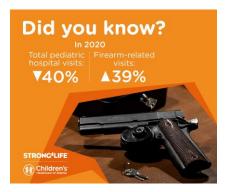
- Flyers at all 3 Campuses
- Tabling/Booths
- **Stickers**

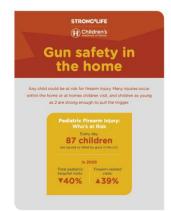




- Media
- Collaboration









#### GET INVOLVED-June 19th-June 25th



#### **Take Home Points**

- Firearms number one cause of deaths in children and teens
- Safe Storage is important for Children/ADHD/Teens (behavioral health/impulsive)
- Ways to store guns safely-Locked up/Unloaded/Separate
- Child Access Protection laws can be effective-->know your state laws
- Remind parents to ask about the presence unsecured guns

# Describe your comfortable level about discussing firearm safety after hearing this presentation?

Very Uncomfortable
Uncomfortable
Neutral
Comfortable
Very Comfortable 5

#### **Training Programs for Health Professionals**

## The BulletPoints Project

Clinical tools for preventing firearm injury





https://youtu.be/tExYuQKaFec

#### **Hyperlinked Educational Videos**

- Bullet Points Project Counseling Video (2minutes)
- FACTS Parent Counseling Videos (14 minutes)
- FACTS SAFE Storage Education Video (8 minutes)
- Preventing Firearm Related Injury and Death-Targeted Intervention (38 minutes)

### **Questions?**

