

Safe Gun Storage:

THE OWNER

A Survey of Preferences among Parents and Caregivers of Children

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Agenda

- Review objectives of this project
- Why is this topic important?
- Review the study methodology
- Review study results
- Conclusions
- Next steps



Why this study?

- Information gap
- Inform future Safety Center purchasing practices
- Better understand Portland-metro area gun ownership
- ...what happens when approaching people in the community about this controversial topic?





Big picture – Gun Violence as a Public Health Problem

- Prevalent and preventable
- Approximately 100,000 Americans are injured or killed by firearms annually^{1,2}
 - -33,636 Americans were killed by firearms (homicide, suicide, or unintentional shootings)¹

-67,197 Americans were injured²

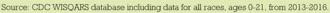


¹ Xu, J., Murphy, S. L., Kochanek, K. D., & Bastian, B. A. (2016, February 16). *Deaths: Final data for 2013*. Retrieved from https://www.cdc.gov/nchs/data/nvsr/nvsr64/nvsr64_02.pdf ² Fowler, K. A., Dahlberg, L. L., Haileyesus, T., & Annest, J. L. (2015). Firearm injuries in the United States. *Prev Med., 79*, 5-14.

Gun Violence & Children

- Gun-related deaths are 3rd leading cause of death overall among US children aged 1-17 years³
- Boys, older children, and minorities are disproportionately affected³
- Teenagers (15-19 years) have the highest gun injury rates⁴
 - Incur gun-related injuries at almost <u>three</u> <u>times</u> the rate of the general population⁴
- Suicide is fourth leading cause of death for children ages 10-14 years and second leading cause of death for youth 15-19 years old⁴
 - Suicide attempts with a gun have a 90% case fatality rate, the highest case fatality rate compared with other mechanisms of suicide⁴

Every day, **78 children,** teens and young adults are **injured or killed** by guns in the United States.





American Academy of Pediatrics





³Fowler, K. A., Dahlberg, L. L., Haileyesus, T., Gutierrez, C., & Bacon, S. (2017). Childhood firearm injuries in the United States. *Pediatrics, 140*(1), 1-11. ⁴ Crossen, E. J., Lewis, B., & Hoffman, B. D. (2015). Preventing gun injuries in children. *Pediatrics in Review, 36*(2), 43-51.

Why is this topic important?

- ~1/3 of homes in the U.S. with children have a gun⁵
- Presence of a gun in the home makes unintentional shootings and intentional shootings more likely⁶
- ~50% of homes with children and firearms have unlocked guns⁶
- Safe storage can make a difference in injury and fatality prevention⁷

If you own a firearm, the AAP recommends it be **stored unloaded, locked up** (lock

box, cable lock, or firearm safe), with the ammunition stored separately.

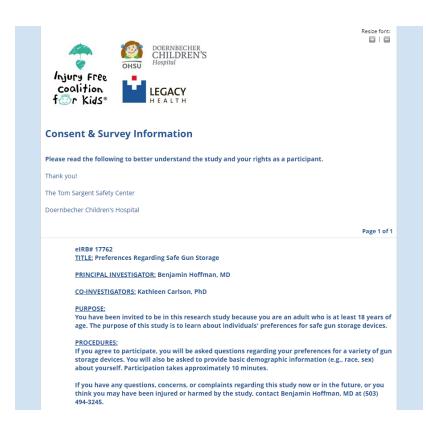


⁵ American Academy of Pediatrics. (2018). Children and Gun Safety. Retrieved from <u>https://www.aap.org/en-us/about-the-aap/aap-press-room/campaigns/gun-safety/Pages/default.aspx</u>

⁶ Johnson, R. M., Coyne-Beasley, T., & Runyan, C. W. (2004). Firearm ownership and storage practices, U.S. households, 1992-2002. *Am J Prev Med, 27*(2), 173-182. ⁷ Shenassa, E. D., Rogers, M. L., Spalding, K. L., & Roberts, M. B. (2004). Safer storage of firearms at home and risk of suicide: a study of protective factors in a nationally representative sample. *J Epidemiol Community Health, 58*, 841-848.

Parental Preferences Regarding Safe Gun Storage

• <u>Study Purpose</u>: conduct assessment for the Portland-metro area regarding preferences for gun storage devices.



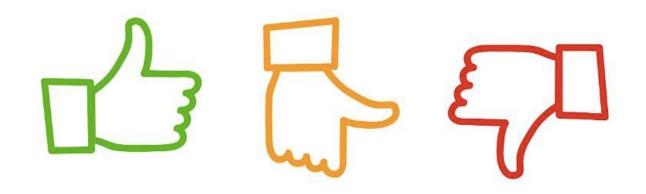


Parental Preferences Regarding Safe Gun Storage

- <u>Specific aims</u>:

Among adults who have guns and children present in their homes (or will), our aims are to:

- 1. Describe current safe gun storage practices.
- 2. Examine preferences for type of safety devices respondents would feel most comfortable using.





Study Design

- Cross-sectional
- Convenience sample of current/soon-to-be caregivers of children who report owning a firearm (or who will own a firearm in the near future)
- Anonymous 10-15 minute survey with \$5 café gift card for participating
- Pilot study goal: n = 100





Recruitment locations

- Doernbecher Children's Hospital Lobby
- OHSU Farmer's Market
- BabyFest Northwest Expo (Portland)
- Stroller Run (Oregon Zoo)
- Family Building Blocks (Salem)





The 5 Safety Devices

- Respondents were presented with 5 devices in-person, and in the survey
- Devices selected for the following reasons:
 - Carried by the manufacturer who provides devices to the Safety Center
 - Small enough to store in bulk at the Safety Center
 - Are relatively inexpensive





• Device A: Cable Lock



- Device B: "Life Jacket" Lock
- Device C: Lock Box with Keyed Access

• Device D: Quick Access Electronic Gun Safe







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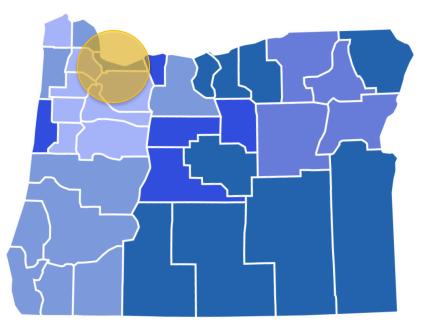




Results

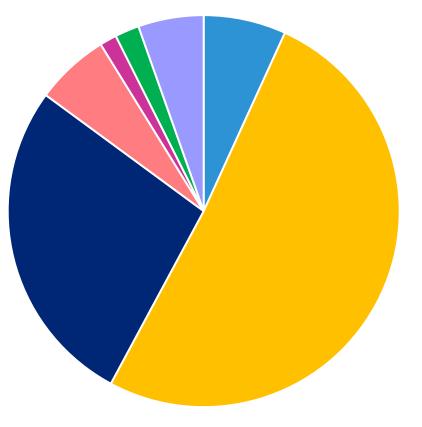


- **Respondents** (n = 147) as of 9/5/18
- Language spoken at home: 89% English
- **Child insurance**: 54% private, 18% Medicaid
- Armed Forces or Law Enforcement: 25%

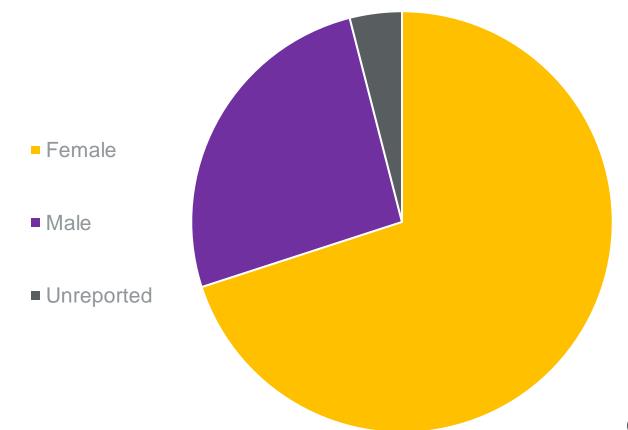


- 18-24 years old
- 25-34 years old
- 35-44 years old
- 45-54 years old
- 55-64 years old
- 65-74 years old
- Unreported

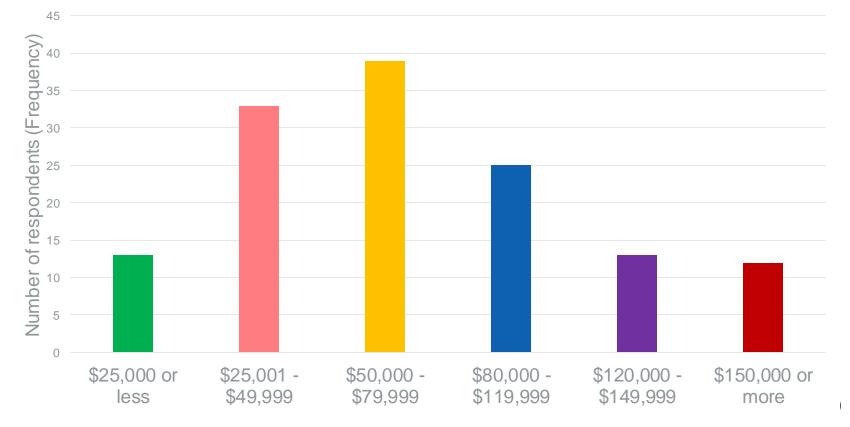
Respondent Age



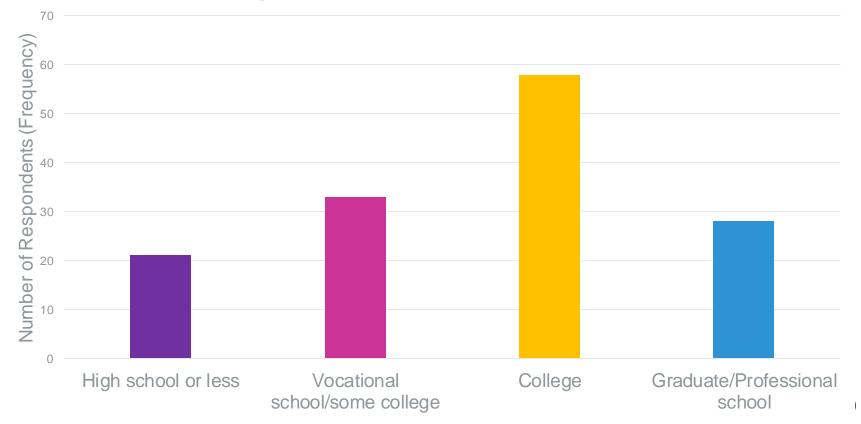
Respondent Gender



Reported Annual Household Income



Highest Grade of School Completed



Device Preferences *"if money wasn't an issue"

- 54% of respondents reported that the gun safe/lockbox with biometric access was their first choice
 - Of the 54% who selected biometric as their first choice, 90% reported the gun lockbox with electronic keypad access as their 2nd choice
- 20% of respondents reported that the gun lockbox with electronic keypad access was their first choice





Device Preferences *"if money wasn't an issue"

- 7% of respondents reported that the cable lock was their first choice
 - Overall, the cable lock was viewed as the least favorable choice (59%)





Results: Current Gun Ownership



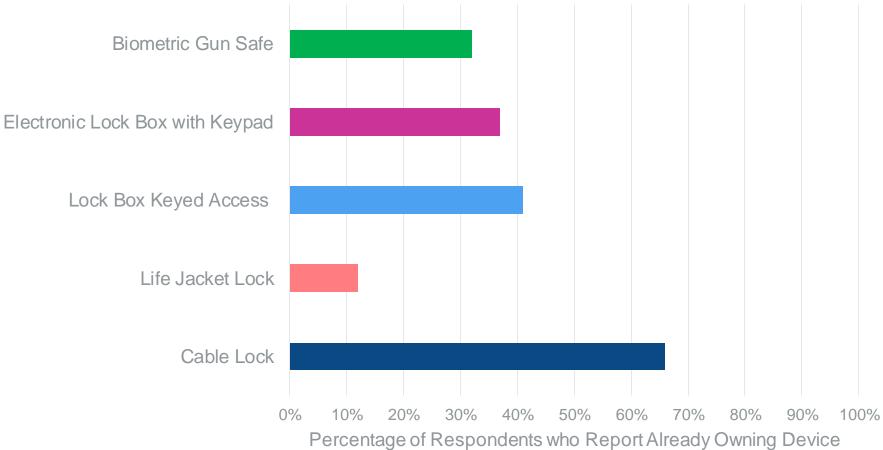
Current Device Ownership

Do not own a device

Already own a device



Existing Safety Devices in Respondents' Homes





Primary Reason for Gun Ownership

"NOT Personal Protection"

- "Recreation"
- "Target shooting"
- "Family heirloom"
- "Gift"
- "For work"
- "Hunting"

"Personal Protection"

- "Defense"
- "Personal safety"
- "Protecting my family"
- "Protection"
- "Self-defense"



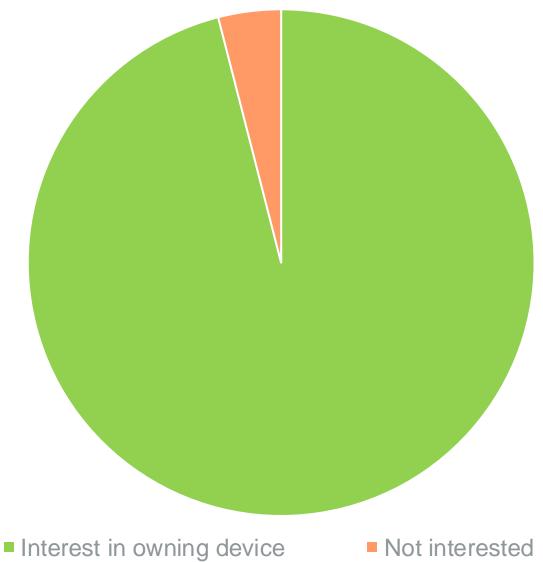
50% own both

18% handgun

7% Long gun



Interest in Owning a Device

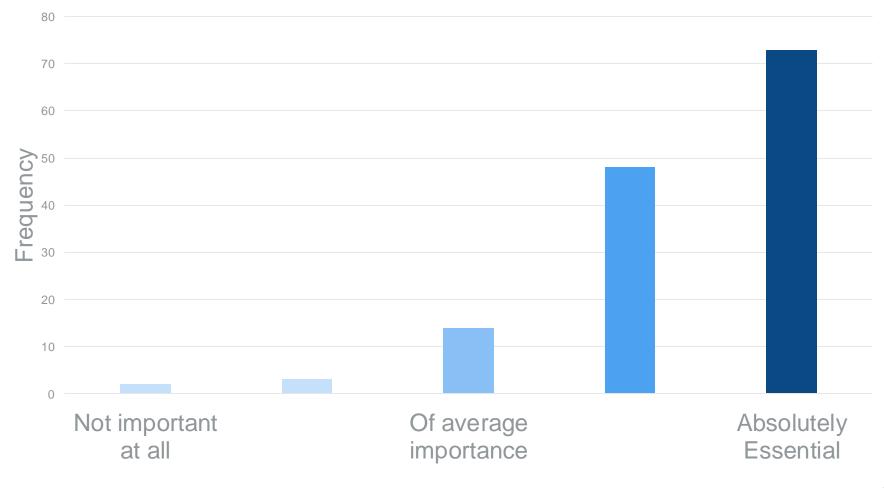




Results: Device Features of Importance

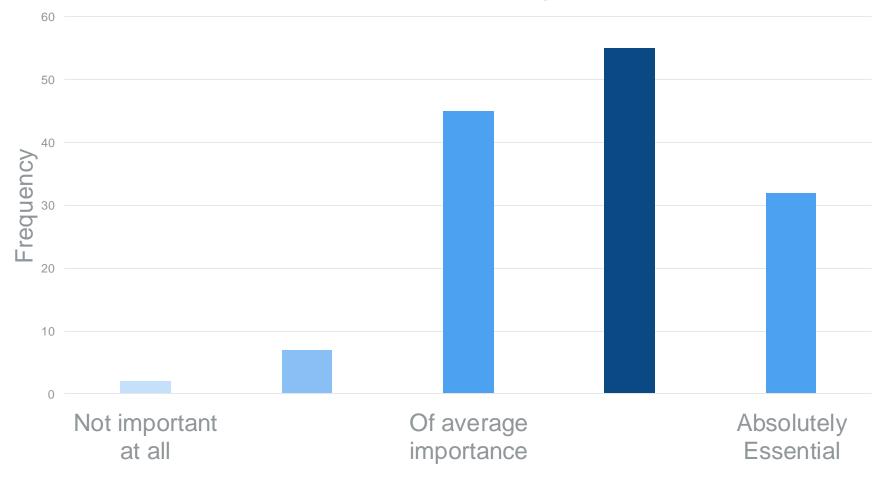


Quick Lock/Unlock



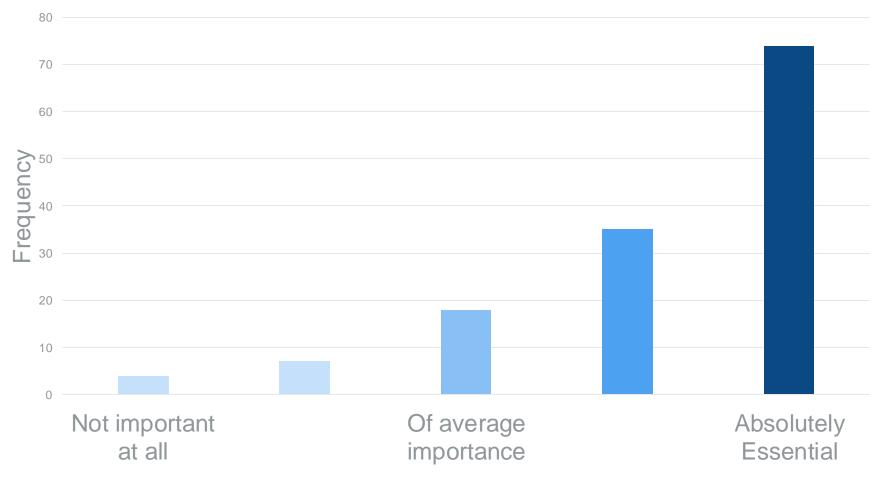


Affordability



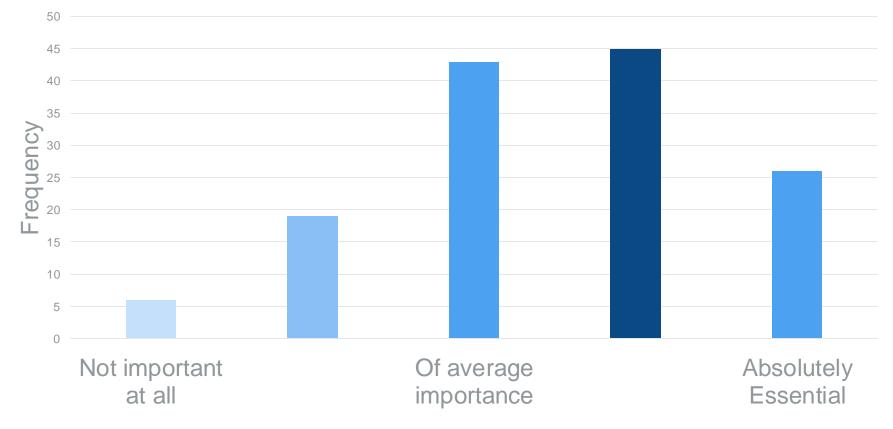


Lock While Loaded





Used for Handguns & Long Guns





Conclusions

- Gun-owners receptive to safe gun storage devices
- Personal protection most common primary reason for gun ownership
- Quick access essential
- Ability to lock while loaded important
- Affordability of device important
- Biometric lock box 1st choice, electronic keypad access lockbox 2nd choice



Limitations

- Focused exclusively safety devices for handguns
- Sample may not be representative of the state
- Survey respondents may not be the decisionmakers when it comes to gun storage in their homes
- Preference assessment, not an efficacy trial





Next steps

- Continue to collect data (goal n = 1,000)
- Conduct statistical analyses on group differences and economic analyses on price points
- Manuscript
- Create a manual for other pediatric hospitals – repeat this process elsewhere



Huge thanks to Doernbecher's Tom Sargent Safety Center!

- When you're in Portland, please visit the Safety Center! You/your child do not need to be an OHSU/Doernbecher patient.
- Services:
 - Nonprofit store with low-cost safety supplies and resources
 - Bike helmets
 - Cabinet locks
 - Window locks
 - Sleep sacks
 - Gun safety devices
 - Etc.
 - Car seat checks
 - Safety tips for parents and children



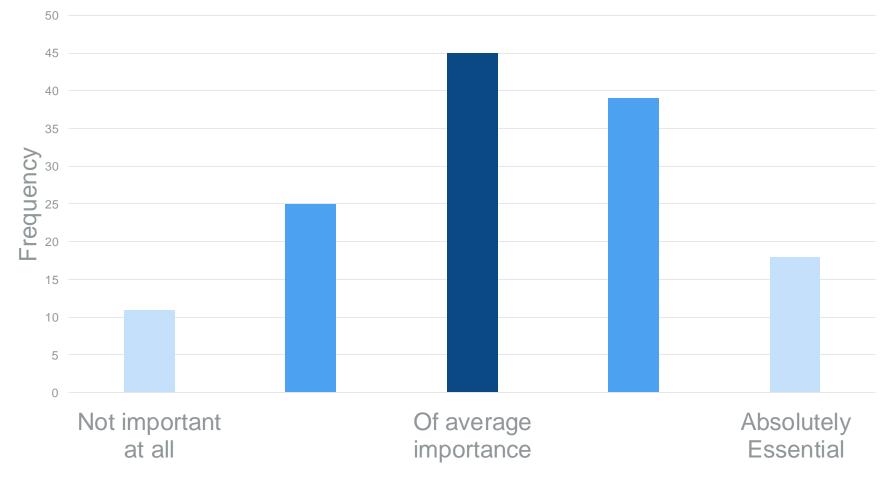
Doernbecher Children's Hospital Lobby 503-418-5666 safety@ohsu.edu





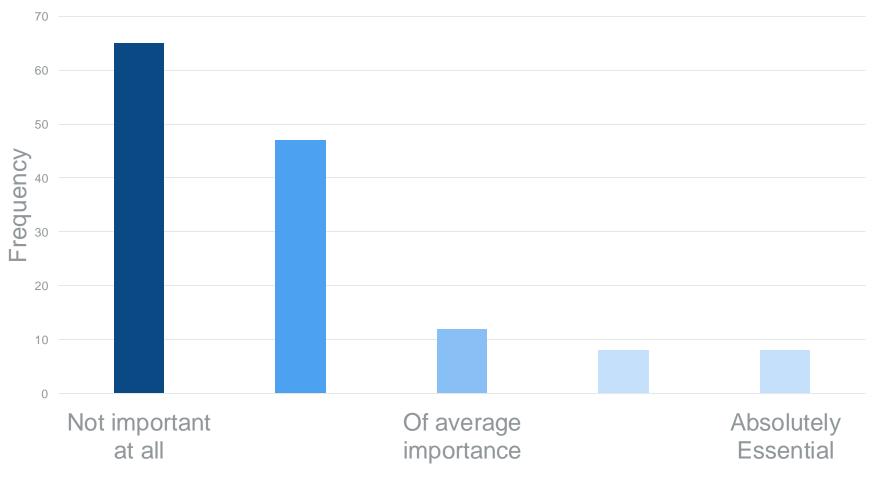
Questions?

Easy to Move





Color & Appearance





Recommended by Police or Gun Advocacy Orgs

