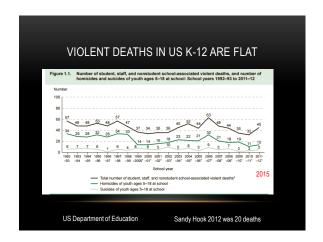
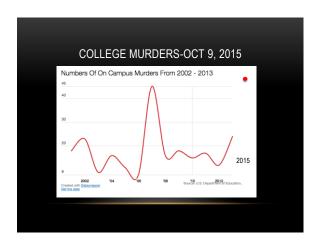


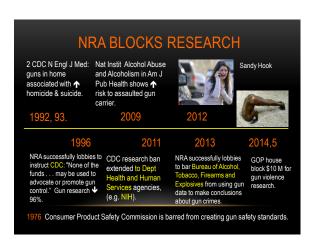
A PUBLIC HEALTH APPROACH

- Study gun related injuries to examine the gun user, the victim, the gun, and the setting.
- Identify factors associated with more / less risk of injury or death.
 - Risk factors are not "causes."
 - Risk factors do not predict morbidity in a particular case.
- Use lessons from other public health campaigns (e.g. tobacco, etc.)
- Develop, demonstrate, implement morbidity prevention strategies.
 J Pub Hith Pol 2001; 22:381-402.

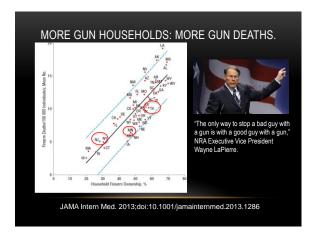
34,000 PERSONS DIE PER YEAR IN US OF GUN DEATHS GUN DEATH RATES ARE DECLINING **Journal of the control of th

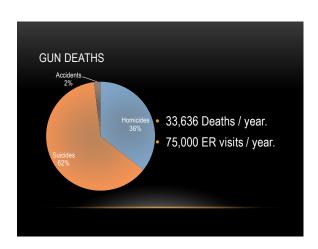


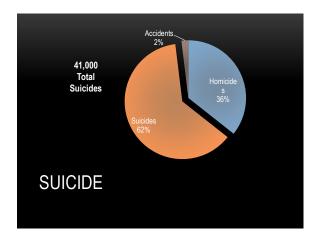


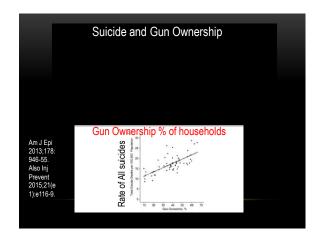


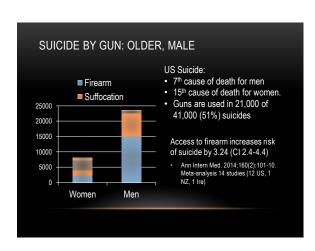












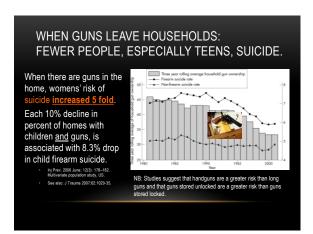
HIGHER RISK OF SUICIDE IN GUN OWNING HOUSEHOLD NOT EXPLAINED BY MORE MENTAL ILLNESS IN THE HOUSEHOLDS.

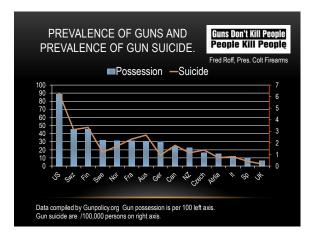
- People in homes with guns are no more likely to have anxiety, mood disorders, substance dependence, or suicidal ideation or planning.
- Having made a suicide attempt over the past year was the only mental health factor more common in people who lived in a home without firearms.

Injury Prevention. 15(3):183-7, 2009 Jun. Household survey of 9282 adults. Multivariate logistic regression analyses controlled for age, sex, racelethnicity, educational attainment and poverty.

SUICIDE AFTER GUN PURCHASE: · Suicide leading cause of 400 death of handgun buyer during 1st year after 350 300 purchase. • N Engl J Med 1999; 341:1583-9. **Death / 100,00g²⁵⁰ p-yrs Background checks 150 delaying acquisition of a gun in some studies decrease 50 death by suicide. 1 2 3 4 5 6 7 8 9 10 Months after Purchase

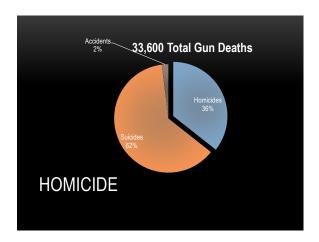
TEEN SUICIDE: ACCESS NOT IMPULSE 80% of teen suicides are at home. Handguns used in most teen suicides. A home with a handgun is 10 times more likely to have a teen suicide. Most guns owned by parents. Teen gun suicide trys are 80-90% lethal. Youth Suicide by Firearms Task Force. http://www.pbs.org/thesilentepidemic/riskfactors/guns. html Suicide & Life-Threatening Behav. 2010;40:609-11. Children committing gun suicide do not have more suicide risk factors (e.g., suicidal thoughts). Adolletion 8 Mrif Suicide 9 Risk 98:6019 2009 3 Mrif 60 report in-home firearm access as those without risk factors. AMA Psychiatry 2015;72:152-9.

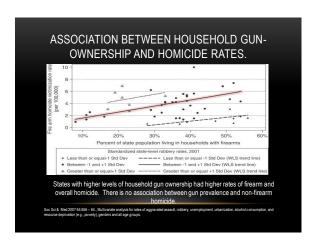




BOTTOM LINE: SUICIDE

- Suicide is 2/3^{rds} of gun deaths.
- The biggest risk factor for suicide by gun is having a gun in the house.
- The availability of a gun increases the lethality of a suicide attempt.







ASSOCIATION BETWEEN HOUSEHOLD GUN-OWNERSHIP AND HOMICIDE RATES.

- .9% increase in homicide for every 1% increase in home gun ownership after controlling for
 - violent crime rates,
 - non violent crime rates.
 - incarceration rates,
 - · income inequality,
 - race.
 - Am J Public health 2013;103:2098-2106

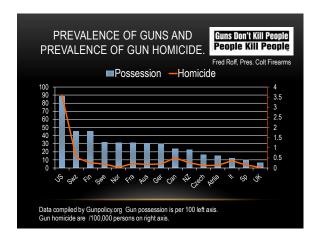
.9% increase in homicide for Access to gun increases risk of

- Homicide by 2.0 (Odds Ratio 1.6-3.0)
- Suicide by 3.24 (OR 2.4-4.4)
 - Ann Intern Med. 2014;160(2):101-10.
 Meta-analysis

GUNS AND INTIMATE MURDER

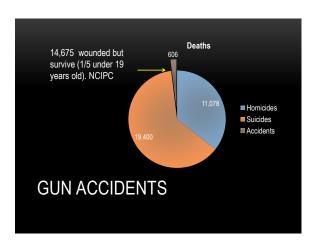
- Gun owners are 8 times more likely to threaten their partners with a gun than non-gun owners.
 - threaten to shoot them
 - threaten to shoot a pet or person the victim cares about,
 - cleaning, holding or loading a gun during an argument,
 - shooting a gun during an argument.
 - J Am Med Women Assn, 2005; 60:62-8. 8,000+ men in a batterer intervention program in MA, 1999-2003. See also Evaluation Review. 2006; 30:283-95.

GUNS AND INTIMATE MURDER Gun in the home: 3 times more likely a person will be murdered by a family member or intimate partner. Gun intimate assaults: 12 times more likely to result in death than non-gun assaults. http://www.silentwitness.net/sub/violences.htm

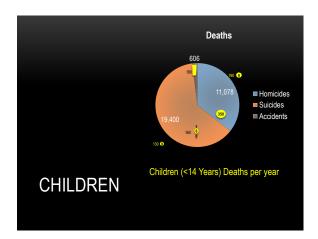


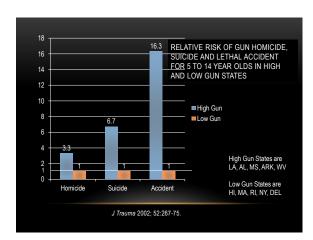
BOTTOM LINE: HOMICIDE

- Guns in homes
 - highly correlated with the risk they will be used for **any** homicide.
 - the most powerful predictor of domestic intimate violence becoming a homicide.
- As in suicide, the availability of a gun potentiates the lethality of homicidal impulse.



GUN ACCIDENTS Fatal gun accidents are 1% of lethal home accidents (poisonings 43%, falls 34%, burns 9%). BUT: 14,675 wounded but survive (1/5 under 19 years old). NCIPC AND: Preventable Accidental lethal shootings 8 X more common in the 4 states with the most guns compared to the 4 states with the fewest guns Acc Anal Prev 2001;33: 477-84. Adults with a gun in the home have a 4 fold higher risk of dying of an accidental gunshot. Acc Anal Prev 35(2003)711-716





| CHIM | DEATHS | FOR | CHII | DREV |
|-------|---------------|-----------------------|-------|------|
| עוטבי | TIFALLO | $-\Gamma \cup \Gamma$ | ULIII | |

- 5 to 14 year olds: US unintentional gun death rate 11 times higher than combined rates of 22 other high-income countries.
 - J Trauma 2011;70:238-43.
- 2011: 2,886 children treated in ER for unintentional gun injury.
 - NCIPC (recent data suggests this is too conservative.)
- 0 to 4 year olds: gun deaths 17 times more common in high gun states than low gun states.
- 5 to 14 year olds: gun deaths are 14 more common in high gun states than low gun states.
 - Acc Anal Prevent 2001;33: 477-84

BOTTOM LINE: CHILD GUN DEATHS

 Guns in the home are the most powerful predictor of lethal gun accidents, suicides, and homicides of children.



Kokapo—a rara avis

GUNS FOR SELF DEFENSE

| IT IS <u>NOT</u> 2.55 MILLION DEFENSIVE | E GUN USES / YEAR! Cato Institute. Tough Targets. 2012. 8 years of news clippings. |
|--|---|
| 400 200 200 Attacked clizen Descripted crime Attacked pilce | 277 reports where intended victim disarmed criminal. 25 armed rape attack victims got upper hand. 65 armed carjack victims prevailed. |
| Bureau of Justice http://bjs.gov/content/pub/pdf/htius.pdf | 11 out of 4,699 where criminal took gun away from a defender. |

SELF-DEFENSIVE GUN USE (SDGU)

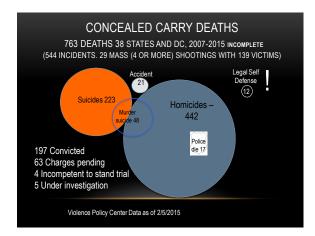
127 of 14,000 (.9%) personal contact crimes, intended victim had a gun. After any protective action,

- 4.2% of unarmed victims were injured
- 4.1% of armed SDGU victims were injured. P=NS.
- In crimes where there was an intent to steal property,
 - 56% of victims who took protective action lost property,
 - 39% of SDGU victims lost property
 - 35% of victims who used a weapon other than a gun lost property.
- Preventive Med. 2015: Apr 21. National Crime Victimization Surveys 2007–2011. Multivariate analyses controlled for age, gender of offender and victim, if offender had a gun, urbanicity, and thirteen types of self-protective action.

CARRYING A GUN: PROTECTION IN AN ASSAULT?

- Persons carrying a gun were 4.46 (P < .05) times more likely to be shot in an assault than those not carrying.
- Among gun assaults where the victim carrying a gun had a chance to resist, this odds ratio increased to 5.45 times more likely to be shot. (P < .05).
 - Am J Public Health. 2009 Nov;99(11):2034-40.

| CONCEALED CARRY LAW: ARIZONA | | | |
|---|--|--|--|
| Arizona Senate Bill 1108 (SB-1108) allows adult citizens to carry concealed weapons without a permit and without completion of a training course. | | | |
| After the law passed in 2010, | | | |
| • gun-related homicides <u>↑ 27% (RR= 1.27; 95% CI 1.02-1.58)</u> . | | | |
| J Trauma Acute Care Surg 2014;76:569-74. Retrospective cohort study of 24 months before and after law. | | | |
| | | | |
| Woman shoots herself dead after | | | |
| adjusting handgun in bra holster | | | |
| A MOTHER of two accidentally killed herself while trying to adjust a gun she carried in a "tra holister". | | | |



BOTTOM LINE: GUNS FOR SELF PROTECTION FROM HARM.

- An armed citizen is more likely to suffer harm to him/her-self or those in his/her household than he/she is to benefit from gun protection.
- Concealed carry weapons are becoming a part of

THE DOCTOR'S OFFICE

AMERICAN ACADEMY OF PEDIATRICS (PARAPHRASED)

- Pediatricians should counsel parents to guard access to their guns inside and outside the home.
- Pediatricians should ask about presence and availability of firearms ...and urge parents who possess guns to prevent access to these guns by children.



 Clinicians should counsel parents of all adolescents to remove guns from the home or restrict access to them. This advice should be reinforced for patients with mood disorders, substance abuse problems (including alcohol), or a history of suicide attempts.

MINNESOTA LAWS: **Gun Dealers**



(IN A D- CLASS)

- No dealer license.
- Dealers not required to retain records for guns /ammo sales.
- No mandatory theft reporting,
- No ID stamps on semi-auto handguns.
- · No bar on bulk sales of handguns.
- No background checks on gunshows or interpersonal sales.
- No mandated sale of locks with handguns.

Gun Owners

- No permit to purchase or license to posses, no fingerprinting.
- No duty to report thefts.
- No ban on assault rifles, large clips.
- No disarming of prohibited handgun possessors.

