

Screening for Firearm Access in the Health Care Setting

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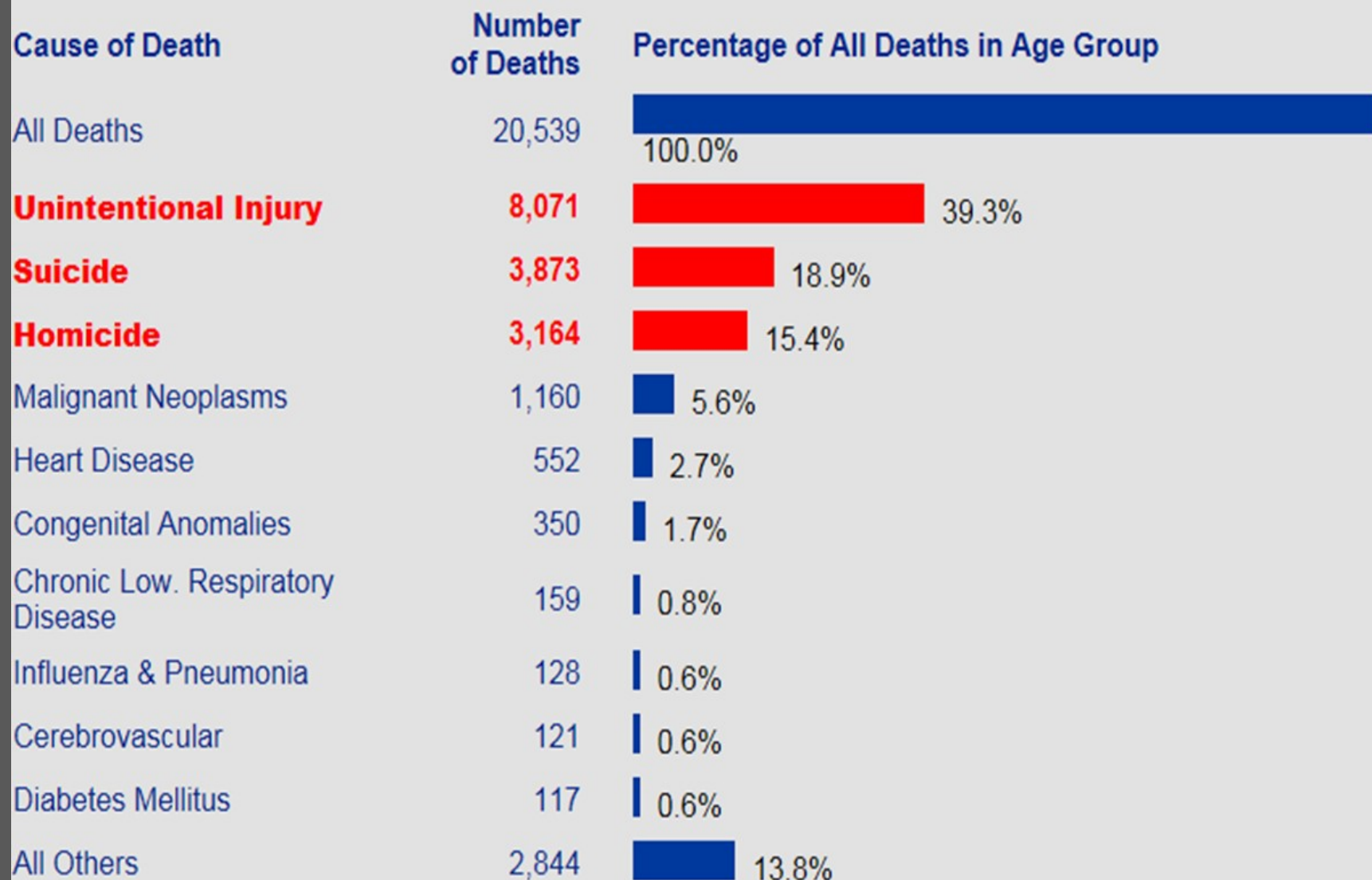
CHAI Presentation

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10 Leading Causes of Deaths, United States

2016, All Races, Both Sexes

Ages: 12-21



Impact of Firearms on Health

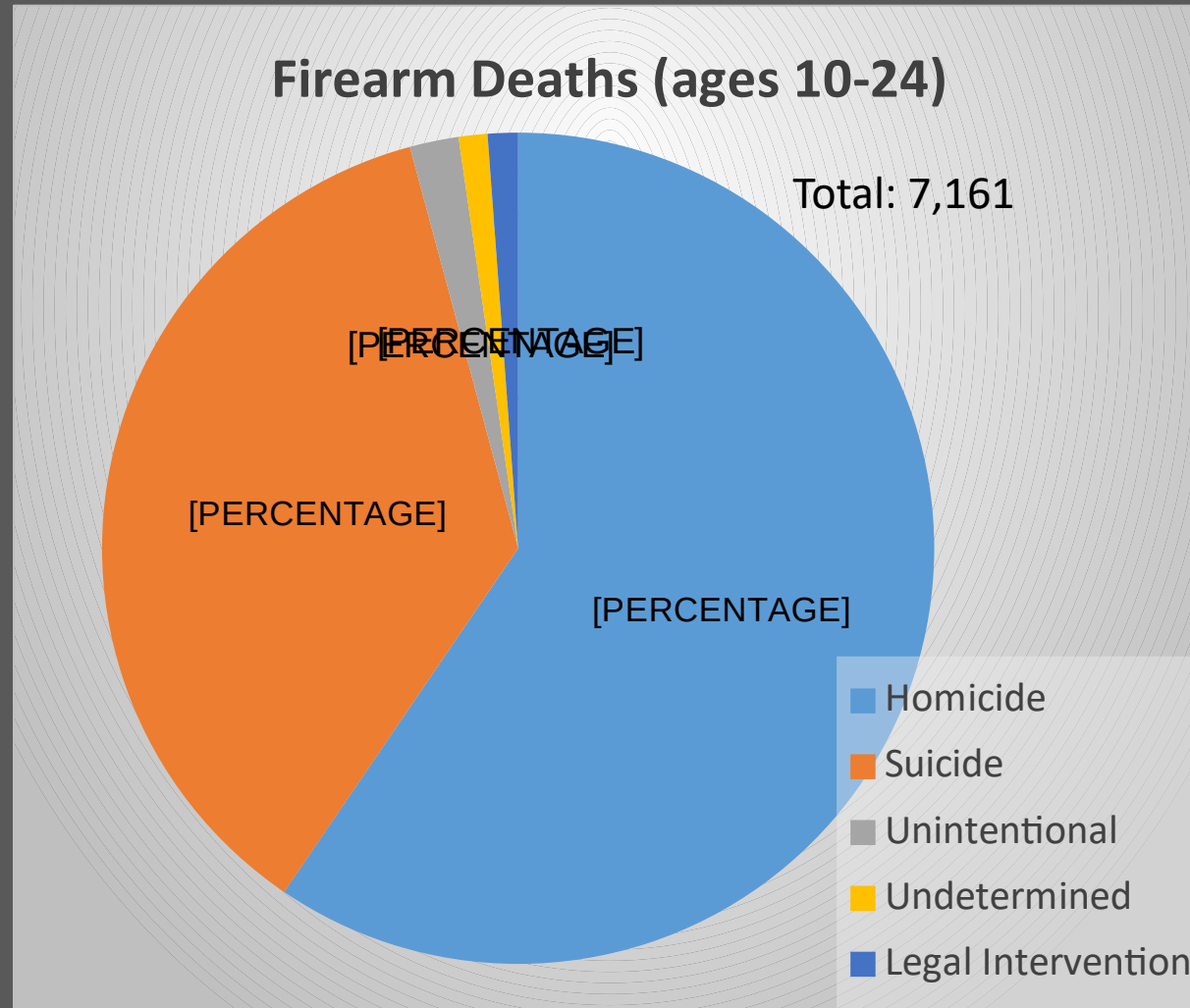
- Suicide 2nd leading cause of death 12-21 yo
 - Firearms - 50% of mortality (rates/100,000)
 - White Males: 9.95
 - Black Males: 6.16
 - White Females: 1.49
- Homicide 3rd leading cause of death
 - Firearms - 86% of mortality
 - Black: 38.7
 - Hispanic: 7.8
 - White: 2.0



Impact of Firearms

- 4687 youth 12-21 died in 2016
- 21% increase in the last 2 years; highest since 2008
- 34,387 suffered nonfatal gun injuries

CDC WISQARS Fatal Injury Report 2015: Firearm Deaths



Firearms

2000	4,594	11.37
2001	4,529	11.02
2002	4,467	10.72
2003	4,400	10.46
2004	4,319	10.17
2005	4,543	10.62
2006	4,782	11.10
2007	4,530	10.48
2008	4,407	10.17
2009	4,204	9.70
2010	4,098	9.46
2011	4,084	9.44
2012	4,130	9.60
2013	3,866	9.05
2014	3,865	9.11
2015	4,329	10.25
2016	4,687	11.12
	73,834	10.22

MVAs

2000	8,161	20.20
2001	8,278	20.14
2002	8,743	20.98
2003	8,324	19.78
2004	8,337	19.63
2005	7,889	18.44
2006	7,897	18.33
2007	7,483	17.31
2008	6,176	14.26
2009	5,473	12.63
2010	4,971	11.48
2011	4,867	11.26
2012	4,694	10.91
2013	4,316	10.10
2014	4,328	10.20
2015	4,445	10.52
2016	4,635	11.00
	109,017	15.09

Firearm Homicide Rates Colorado vs US

	15-19 year olds-#	15-19 Rate	20-24 year olds-#	20-24 Rate
Suicide Colorado	32	9.17	48	12.31
Suicide National	406	6.1	703	6.61
Homicide Colorado	9	2.58	18	4.61
Homicide NVDRS	477	4.81	1053	9.9

With a gun in the home occupants are...

- 3 times as likely to die from homicide
- 5 times as likely to die from suicide



Kellerman, A.L., Rivera, F.P., Rushforth, N.B., Somes, G., Reay, D.T., Francisco, J., Banton, J.G., Prodzinski, J., Fligner, C., & Hackman, B.B. (1992). Suicide in the home in relation to gun ownership. *The New England Journal of Medicine*, 329(15), 1084-1091

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AAP Recommendations 2012

- *“Pediatricians and other child health care professionals are urged to counsel parents about the dangers of allowing children and adolescents to have access to guns inside and outside the home”*
- Screen families/youth
- Counsel that the safest home is without guns
- Next best is safe storage
 - Guns unloaded
 - Locked
 - Ammunition locked/separate from guns

Chart Review Documentation - Colorado

- 19% Routine Care
- 22% Mental Health Diagnosis
 - 15.9% did provider's document either presence or absence of firearm
 - 2.2% documented presence of firearm
- 13.9% of youth reported access to firearm
 - Only 20% of the time was this documented

General Screening Topics

- PHQ-2- All Patients- urgent care, family planning, follow-up
- PHQ-9- All Patients –routine care- 1600/yr- 20 % positive
- Violence Perpetration Screen
 - 19.8% males
 - 12% females
- Substance Use Screen
 - 24% males
 - 16.6% females

Firearm Access (Firearms in the home)

- Youth

- Is there a gun in your house?
- Do any of your friends have access to guns

- Parents

- Do you have any guns in or around your house?

Effects of Firearm Access Screening-EMR

- Increased provider documentation of firearm access
 - 73% in intervention group vs 26% in control group
- Increased provider documentation of safe storage counseling
 - 52% in intervention group vs 15% in control group (p=.004)

Safe Storage Device Distribution

- Lock boxes
- Cable locks
- Trigger locks

Counseling on Access to Lethal Means (CALM)

- Suicide Prevention Resource Center
- www.sprc.org
- Go to *Online Training Courses* and the CALM training
 - <http://training.sprc.org/course/view.php?id=3>
- Specific to Colorado:
 - http://csph.ucdenver.edu/cphp/cdphe/Reducing_Lethal_Means_Counseling_Module/index.html

High Risk Situations

- Suicidal ideation/plan
- Major depressive disorder
- Violence Involvement

