



# UNIVERSITY OF CALIFORNIA

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#### DIVISION OF AGRICULTURE AND NATURAL RESOURCES

January 11, 2023

The Honorable Nancy Skinner  
Chair, Joint Legislative Budget Committee  
1020 N Street, Room 553  
Sacramento, California 95814

Dear Senator Skinner:

Pursuant to Section 14237 of the Penal Code, enclosed is the University of California's annual report to the Legislature on Firearm Violence Research Center, 2017-2022, University of California at Davis.

If you have any questions regarding this report, Associate Vice President David Alcocer would be pleased to speak with you. David can be reached by telephone at (510) 987-9113, or by e-mail at [David.Alcocer@ucop.edu](mailto:David.Alcocer@ucop.edu).

Sincerely,

Michael V. Drake, MD  
President

Enclosure

cc: Senate Budget and Fiscal Review  
The Honorable John Laird, Chair  
Senate Budget and Fiscal Review Subcommittee #1  
(Attn: Mr. Christopher Francis)  
(Attn: Ms. Jean-Marie McKinney)  
The Honorable Kevin McCarty, Chair  
Assembly Budget Subcommittee #2  
(Attn: Mr. Mark Martin)  
(Attn: Ms. Sarah Haynes)  
Mr. Hans Hemann, Joint Legislative Budget Committee  
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Ms. Tammy Weis, Office of the Chief Clerk of the Assembly  
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Ms. Gabriela Chavez, Department of Finance  
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# CALIFORNIA FIREARM VIOLENCE RESEARCH CENTER

## Principal Activities and Accomplishments 2017-2022

A report to the California Legislature  
December 2022



California Firearm Violence  
Research Center

Please direct questions to:

Garen J. Wintemute, MD, MPH

Distinguished Professor, Emergency Medicine

Baker-Teret Chair in Violence Prevention

California Firearm Violence Research Center, Founding Director

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This report was authored by Dr. Garen Wintemute and Pamela Keach, MS, Research Grant Program Manager, CA FVRC.



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CALIFORNIA FIREARM VIOLENCE RESEARCH CENTER  
PRINCIPAL ACTIVITIES AND ACCOMPLISHMENTS, 2017-2022

### EXECUTIVE SUMMARY

Since the legislature's establishment of the California Firearm Violence Research Center (CA FVRC) in 2017 at UC Davis, we have secured our place nationally and internationally as a leading source of rigorous, objective research and analysis. We have recruited four early career and one mid-career faculty in disciplines appropriate to mission: epidemiology, sociology, criminology, economics, policy analysis, and grown our PhD, Masters level, and undergraduate research staff from a variety of fields to support the translational and transformative research on the nature, causes, consequences, and prevention of firearm violence.

Our research includes basic epidemiologic studies on firearm violence in California; a cross-sectional survey research project to address the critical need for more--and more sophisticated--data and scientific research on firearm violence to inform policy and prevention strategies in California; and policy studies on the effectiveness of background checks, implementation and effectiveness of gun violence restraining orders, and effectiveness of community violence interventions.

In March 2020 when the pandemic altered our way of life, we pivoted to research on violence during the COVID pandemic and developed novel methods of threat assessment. Two years later, political unrest led us to conduct survey research on political violence.

Working with policymakers continues to be a cornerstone of our work. We have provided technical assistance and briefings to the Office of the Governor and multiple state legislators. Our impactful research has garnered attention from the White House and Congress, inviting center faculty to brief Office of Domestic Policy staff and the House of Representatives Gun Violence Task Force. Locally, we are collaborating with county governments on the design, implementation, and evaluation of violence prevention measures.

We continue to foster and develop new firearms violence researchers through our small grant program. We have made 2 rounds of competitive grant funding, supporting 12 research studies from six CA public universities. We continue to offer 2-year postdoctoral fellowships to qualified scholars and support graduate and undergraduate researchers from multiple campuses.

Dissemination of our research is largely through scholarly publications and conference presentations. Since 2017, we have published nearly 100 scholarly articles or editorials, and given more than 100 presentations. We respond to an extensive number of media requests for interviews and use these opportunities to promote awareness of research on violence in the public media.

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## INTRODUCTION

Senator Lois Wolk, D-Davis, authored Senate Bill 1006 to establish a firearm violence research center at the University of California. As the first state-funded public institution to study the public health epidemic of gun violence, the California legislature embarked on a bold step to fill a gap public health funding to determine the most effective, evidence-based policies to reduce the number of deaths and injuries resulting from firearm violence.

The University of California Firearm Violence Research Center (CA FVRC) was established at UC Davis by the UC Office of the President following a call for proposals from interested campuses in 2016. CA FVRC began operations at UC Davis in July 2017.

Commencing with the 2019-2020 fiscal year, SB 105 amended the Budget Act of 2019 to ensure that the previously appropriated funds for support of subdivision (c) of Provision 4.2 of Item 6440-001-0001 of Chapter 23 of the Statutes of 2016 be directly allocated by the University of California to the University of California Davis Firearms Violence Research Center and that this support would flow from the University of California to the University of California Davis without the assessment of administrative costs or charges. Additionally, the legislature lifted the original 5-year term on its annual appropriation for CA FVRC and appropriated an additional \$3.85 million for the first in the nation program to engage health professionals in firearm violence prevention.

The name of the Center was officially changed by the legislature (AB173) in 2021 to the California Firearm Violence Research Center (CA FVRC). In 2022, the legislature increased the annual funding (Budget Act of 2022-2023) for the California Firearm Violence Research Center by \$2M per year. This additional funding assures that we will continue firearm violence research and engaging health professionals in firearm violence prevention.

## MISSION

CA FVRC's mission is 1) to conduct basic, translational, and transformative research that provides sound scientific evidence on the nature, causes, consequences, and prevention of firearm violence; 2) to disseminate that evidence and promote the adoption of evidence-based firearm violence prevention measures; and 3) to expand and extend such efforts through education and training in firearm violence research and its applications.

## ORGANIZATION

CA FVRC is administratively located in the Department of Emergency Medicine at UC Davis and is co-located with the Violence Prevention Research Program (VPRP), a multidisciplinary research and policy development program in the UC Davis School of Medicine.

Guided by a multidisciplinary approach, firearm violence research conducted by the center includes: 1) the nature of firearm violence, including individual and societal determinants of risk for involvement in firearm violence; 2) the individual, community, and societal consequences of firearm violence; and 3) prevention and treatment of firearm violence at the individual, community, and societal levels.



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Specific activities of the center include:

- Basic, translational, and transformative research to provide the scientific evidence upon which sound firearm violence prevention policies and programs can be based.
- Identification, implementation, and evaluation of firearm violence prevention policies and programs.
- Training opportunities for new researchers, including experienced investigators in related fields, young investigators who have completed their education, postdoctoral scholars, doctoral students, graduate and undergraduate students.
- Conducting a small grants program for research on firearm violence to support qualified investigators, regardless of institutional affiliation.

Academic faculty at the center include:

- Garen J. Wintemute, MD, MPH. Professor and Director
- Amy Barnhorst, MD. Professor and Associate Director
- Rose Kagawa, PhD, MPH. Assistant Professor
- Hannah Laqueur, PhD,MPA, MA. Assistant Professor
- Nicole Kravitz-Wirtz, PhD, MPH. Assistant Professor
- Shani Buggs, MPH, PhD. MPH. Assistant Professor
- Veronica Pear, PhD, MPH, MA. Assistant Professor

## 2017-2022 HIGHLIGHTS

**Translational and transformative research.** CA FVRC faculty and staff have conducted a wide array of applied research projects that produced important new information on firearm violence and resulted in many scholarly publications and presentations. Initial research at the Center focused on updating the epidemiology of firearm violence in California by characterizing the patterns of risk for fatal firearm violence victimization in California, which was last done in 1987. We then completed a controlled study to determine whether there are risk factors for recurrent injury or death from firearm violence, given an initial injury-related emergency department visit or hospitalization.

Other initial studies funded by the Center include:

*The impact of spikes in handgun acquisitions on firearm-related harms.* Mass shootings are followed by short-term increases in firearm purchases in California. We have completed a study of the association between these purchase spikes and subsequent trends in firearm violence.

*Racial/ethnic variation in firearm mortality.* We have nearly completed a study of racial/ethnic variation in firearm homicide and suicide in California that focuses in part on socioeconomic and cultural factors that may increase or decrease risk.

The **California Safety and Well-Being Survey (CSaWS)** is a core priority, all-online, repeated cross-sectional survey research project of the Center. CSaWS is designed to address the critical need for

more--and more sophisticated--data and scientific research on firearm violence to inform policy and prevention strategies in California and serves as a model for similar data collection efforts and data-informed decision-making in other states across the nation. Each wave of CSaWS is tailored to reflect pressing policy and public health issues related to firearm violence and resultant data are weighted to be statistically representative of the adult population of the state.

**CSaWS Wave 1** was administered in September-October 2018 (N=2,558). It provided the most in-depth information on firearm ownership and related topics for the state in over 40 years, including on the prevalence of, and factors associated with, firearm ownership and acquisition; the benefits and risks of firearm ownership; and public opinions on selected firearm violence prevention efforts, including a study detailing public opinion on health professionals talking about firearm safety with their patients: e.g., 2 in 3 Californians said conversations about firearm safety between doctors and patients were always or sometimes appropriate; this publication was awarded one of [NEJM Journal Watch Emergency Medicine Top Stories for 2019](#).

**CSaWS Wave 2** data collection occurred in July 2020 (N=2,870), and given early indications that the COVID-19 pandemic would intensify many of the structurally rooted conditions that contribute to firearm violence, our team intentionally adapted the survey instrument to explore the intersection of firearm violence and the pandemic; among the first published studies indicated that an estimated 110,000 Californians acquired a firearm in response to the pandemic, including 47,000 new owners, while an estimated 55,000 owners newly adopted the least secure firearm storage practice because of concerns about violence amid the pandemic. Other publications using CSaWS Wave 2 data have examined the pervasiveness of broader experiences of violence in daily life, such as hearing gunshots, passing sidewalk memorials to victims of violence, and knowing people who have been shot, as well as a study indicating that although public awareness of California's Extreme Risk Protection Order (GVRO) law to prevent firearm-related harm is low, perceived appropriateness of and willingness to use this tool at least some of the time is high.

This latter study examining public awareness of and perceived willingness to use California's GVRO law was used as the [basis for new state funding](#) to increase GVRO awareness. An email from the Office of the Governor regarding this action read: *"Good morning--I'm flagging a budget item in case you weren't already aware. We drew up the proposal having reviewed your recent findings, and I wanted to memorialize that by way of this email and convey my gratitude for your ongoing work in this area."* The item, SB-129 (Budget Act of 2021), provides \$11 million for gun violence restraining order awareness and education, including \$5 million for a "See Something, Say Something" public awareness campaign focused on when and how to seek restraining orders, \$5 million for domestic violence groups for direct prevention outreach, and \$1 million for statewide training regarding gun violence restraining orders.

**Evaluation of firearm violence prevention policies and programs.** In response to requests from individual California legislators, we have provided technical assistance and expert testimony on several legislative proposals, including 1) SB 55 (Jackson) to prohibit ownership and purchase of firearms and ammunition by persons with multiple convictions for driving under the influence (DUI), and 2) AB 521 (Berman) to educate and train health professionals on clinical and policy approaches

to firearm violence prevention. CA FVRC funds, in combination with principal funding from other sources, has supported a variety of firearms research studies related to the effectiveness of background check policies; alcohol, drug, and other prior crimes and risk of arrest in handgun purchasers, prospective evaluation of California's Armed and Prohibited Persons System; multiple studies evaluating California's gun violence restraining order policy; evaluation of a hospital-based violence intervention program; community-based violence interrupter programs; and reimagining and redesigning

In 2018, the Center held its first briefing for policymakers and the public at the Capitol. Opening remarks were given by Senators Kevin De León and Lois Wolk. Center researchers made eleven presentations of research on firearm violence and its prevention.

An entire session of the 2019 annual meeting of the American Society of Criminology was devoted to the Center's work. Leading medical journals—the *New England Journal of Medicine* and the *Annals of Internal Medicine*—cited center-supported research in 2019 as producing some of the most important research findings of the year.

In March 2020, shelter in place orders were issued in California to intervene in the spread of COVID-19. Plans for a second briefing were cancelled as the nation pivoted to remote work and zoom meetings.

Despite the disruption to everyday life from the pandemic, Center faculty and staff continued to disseminate and translate center-supported research to professional and practitioner associations and to the public and have worked with leading media organizations to educate the public on firearm violence and its prevention. A complete list of dissemination opportunities (publications, presentations, and media) is included in Appendix 1.

**Training opportunities.** The Center's postdoctoral fellowship program has been incredibly successful providing advanced practicum research opportunities to three postdoctoral fellows. Shani Buggs, PhD, MPH is continuing her firearm violence research as an Assistant Professor at UC Davis; Alaina DeBiasi, PhD, MPH, recently accepted an appointment as an Assistant Professor at Wayne State University; and our newest postdoctoral fellow brings expertise in school safety and the evaluation of gun free zones; he recently began his 2-year fellowship appointment.

Over the last five years, Center funds have also supported specialized training and collaboration opportunities for health professional students, and more than 30 graduate and undergraduate students to understand and prevent firearm violence. Highlights include:

- Veronica Pear, a former research data analyst at the center, completed her doctoral studies at UC Berkeley and was recently appointed Assistant Professor at the Center. Her dissertation, titled "The role of community and individual firearm accessibility in intentional firearm injury: identifying risk factors and assessing interventions," is based on work being done at the center, and she has also made a career commitment to violence prevention research.

- A graduate student researcher was instrumental in developing the codebook used in a qualitative study of mass murder cases.
- An undergraduate Research Assistant gained experience surveying blighted properties for a study exploring policy questions related to firearm violence and rates of violence in areas with higher rates of blight. That student is now at USC as a MPA and MUP Candidate, working as an administrative intern at the City of Pasadena where he is surveying commercial districts to inventory vacant properties for business recruitment efforts.
- An undergraduate student researcher who later joined us as a career employee gained experience developing curriculum for health care providers counseling clinicians about firearm safety and is now in medical school.

**Small research grant program.** The Center established a small research grant program in July 2019, awarding nearly \$100,000 in small grants to researchers at UCLA, UCSD, UC Merced, UC Davis, and CSU, Chico. The following year, over \$250,000 in large and small grants were awarded to researchers at: UCLA in the Department of General Surgery; UC Berkeley, Institute of Urban and Regional Development; UCLA Jonathon and Karin Fielding School of Public Health; UCSD Center on Gender Equity and Health; UCLA Health; and UCSD Department of Emergency Medicine. Unfortunately, many of the 2020 studies suffered pandemic-related challenges/delays and are still ongoing.

Peer reviewed publications from this funding include:

Matthay EC, Farkas K, Rudolph KE, Zimmerman S, Barragan M, Goin DE, Ahern J. Firearm and nonfirearm violence after Operation Peacemaker Fellowship in Richmond, California, 1996-2016. *American Journal of Public Health*. 2019; 109: 1605-1611.

Goldman-Mellor S, Olfson M, Lidon-Moyano C, Schoenbaum M. Association of Suicide and Other Mortality with Emergency Department Presentation. *JAMA Netw Open*. 2019 Dec 2;2(12):e1917571. doi: 10.1001/jamanetworkopen.2019.17571.PMID: 31834399

Stokes SC, McFadden NR, Salcedo ES, Beres AL. Firearm safety counseling for patients: an interactive curriculum for trauma providers. *MedEdPORTAL*. 2022;18:11237. [https://doi.org/10.15766/mep\\_2374-8265.11237](https://doi.org/10.15766/mep_2374-8265.11237)

Other publications and significant outcomes from the research grants include a dissertation manuscript, *Organizational Variation in California Police Departments' Rates of Fatal and Non-fatal Force* (working title), a report, *Predicting Lethal Intimate Partner Violence (IPV) in Orange County, CA*; and a submitted manuscript, *Exposure to Family Violence in Adolescence on Firearm Carrying in Young Adulthood*; a presentation to the Association of American Medical Colleges (AAMC) Building Better Curriculum Series on developing a firearm safety counseling module for patients; and a new researcher continuing to interview and qualitatively assess perceptions about gun rights, firearm laws, and gun ownership in a rural community. A full listing of awardees is included in Appendix 2.

**EXPENDITURE REPORT**

CA FVRC began operation in October 2017 with an initial budget of \$5M from the California Legislature. As expected, personnel (salary and fringe) are the largest expenditure, attributing to more than 60% of expended funds over the 5-year period. About 15% of the expenditure budget was allocated to the small research grant program, followed by 9% of the budget being allocated to purchased services, primarily for the development and implementation of two waves of the Community Safety and Well-being Survey. Remaining expenditures included facility lease and operating expenses, expenses related maintaining a historical record of penal code changes, open source publication fees, conference attendance (virtual and in person) for research dissemination, and various research related expenses for subscriptions to qualitative coding software and data purchases.

	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	GRAND TOTAL
PERSONNEL (salaries and fringe)	\$ 279,706	\$ 463,316	\$ 708,496	\$ 836,812	\$ 415,477	\$ 2,703,807
TRAVEL		\$ 3,233	\$ 13,955	\$ -		\$ 17,187
SUPPLIES and OTHER DIRECT COSTS						
Books, Publications, Subscriptions			\$ 8,394	\$ 5,493	\$ 3,100	\$ 16,988
Computers and accessories	\$ 8,350	\$ 3,131	\$ 5,970	\$ 2,955	\$ 1,401	\$ 21,808
Computer Software and Licenses	\$ 800	\$ 76	\$ 843	\$ 1,793	\$ 8,017	\$ 11,529
Conference and Registration Fees		\$ 5,712	\$ 4,638	\$ 5,960	\$ 1,360	\$ 17,670
Facility (lease, utilities, etc)	\$ 24,715	\$ 33,800	\$ 53,983	\$ 52,838	\$ 54,066	\$ 219,402
General Office Supplies	\$ 152	\$ 780	\$ 1,050	\$ 3,484		\$ 5,466
Professional Fees and Memberships	\$ 788	\$ 1,467	\$ 1,484	\$ 1,650		\$ 5,389
Purchased services	\$ 342	\$ 153,192	\$ 109,113	\$ 76,177	\$ 22,091	\$ 360,916
Tuition Remission				\$ 1,229	\$ 17,830	\$ 19,059
RESEARCH GRANTS	\$ 150,000	\$ 150,000	\$ 75,561	\$ 257,640		\$ 633,201
INDIRECT	\$ 67,610	\$ 138,136	\$ -	\$ -		\$ 205,746
<b>SUBTOTAL</b>	<b>\$ 532,463</b>	<b>\$ 952,844</b>	<b>\$ 983,487</b>	<b>\$ 1,246,032</b>	<b>\$ 523,343</b>	<b>\$ 4,238,168</b>
				Carryforward Balance		\$ 761,832

The carryforward balance is planned to support a portion of operating costs in FY 2022-2023. We expect future travel and conference related expenses to increase as more and more places re-open for in-person gatherings. Personnel expenses have stabilized with anticipated fluctuations in hiring of undergraduate and graduate students to support innovative research objectives.

## APPENDIX 1. CALIFORNIA FIREARM VIOLENCE RESEARCH CENTER

### Research Dissemination as of October 2022

#### JOURNAL ARTICLES

Adhia, A, **Schleimer, JP**, Maza, J. Trends in Secondary School Practices Related to Violence Prevention, 2012–2018. 2022. *Journal of School Psychology*. doi: 10.1111/josh.13195

**Aubel A, Pallin R**, Knoepke C, **Wintemute G, Kravitz-Wirtz N**. 2022. “A Comparative Content Analysis of Newspaper Coverage About Extreme Risk Protection Order Policies in Passing and Non-Passing US States.” *BMC Public Health* 22: 981.

Bhatt A, **Gonzales H, Pallin R, Barnhorst A**. Rising Rates of Adolescent Firearm Suicide and the Clinician's Role in Addressing Firearms. *J Am Acad Child Adolesc Psychiatry*. 2022 Aug 18:S0890-8567(22)01245-X. doi: 10.1016/j.jaac.2022.07.820. PMID: 36007812.

Ellyson, AM, Gause, E, Oesterle, S, Kuklinski, M, Briney, JS, Weybright, EH, Haggerty, K, Lyons, V, **Schleimer, JP**, Rowhani-Rahbar, A. Trajectories of handgun carrying in rural communities from early adolescence to young adulthood. *JAMA Netw Open*. 2022;5(4):e225127.

Jarman, AJ, Hwang, AC, **Schleimer, JP**, Fontenette, RW, Mumma, BE. Racial Disparities in Opioid Analgesia Administration Among Adult Emergency Department Patients with Abdominal Pain. Forthcoming in *WestJEM*.

**Kagawa, R. M. C.**, Calnin, B., Smirniotis, C., Cerdá, M., Wintemute, G.J., Rudolph, K. Effects of building demolitions on firearm violence in Detroit, Michigan. *Preventive Medicine*.

**Kagawa, R.M.C., Charbonneau, A., McCort, C.**, McCourt, A., Vernick, J., Webster, D., **Wintemute, G.J.** Effects of comprehensive background check policies on firearm fatalities in four states. *American Journal of Epidemiology*. IN PRESS

Keyes KM, Hamilton A, Tracy M, **Kagawa RMC, Pear VA**, Fink D, et al. (2022) Simulating the bounds of plausibility: Estimating the impact of high-risk versus population-based approaches to prevent firearm injury. *PLoS ONE* 17(6): e0269372. <https://doi.org/10.1371/journal.pone.0269372>

Kleber K, **Kravitz-Wirtz N, Buggs S**, Adams C, Sardo A, Hoch J, Brown I. 2022. “Emergency Department Visit Patterns in the Recently Discharged, Violently Injured Patient: Retrospective Cohort Review.” *The American Journal of Surgery*. doi: 10.1016/j.amjsurg.2022.07.005.

**Laqueur HS, McCort C, Smirniotis C, Wintemute GJ**. Machine learning analysis of handgun transactions to predict firearm suicide risk. *JAMA Network Open*. 2022; 5(7): e2221041.

Miller M, Zhang Y, Prince L, Swanson SA, **Wintemute GJ**, Studdert DM. Suicide deaths among women in California living with handgun owners vs those living with other adults in handgun-free homes, 2004-2016. *JAMA Psychiatry*. 2022 Jun 1; 79(6): 582-588.

**Pallin R**, Teasdale S, Agnoli A, Spitzer S, **Asif-Sattar R, Wintemute GJ, Barnhorst A**. Talking about firearm injury prevention with patients: a survey of medical residents. *BMC Med Educ*. 2022 Jan 3;22(1):14. doi: 10.1186/s12909-021-03024-9. PMID: 34980095

**Pallin R, Wright MA, Tomsich EA, Wintemute GJ, Stewart S, Kagawa RMC**. Prior drug-related criminal charges and risk for intimate partner violence perpetration among authorized purchasers of handguns in California. *Journal of Interpersonal Violence*. 2022. Online publication ahead of print March 25. DOI: 10.1177/08862605221078811.



**Pear VA, Pallin R, Schleimer JP, Tomsich E, Kravitz-Wirtz N, Shev AB, Knoepke CE, Wintemute GJ.** Gun Violence Restraining Orders in California, 2016-2018: Case Details and Respondent Mortality. *Inj Prev*. Published Online First: 02 June 2022. [doi:10.1136/injuryprev-2022-044544](https://doi.org/10.1136/injuryprev-2022-044544).

**Pear VA, Schleimer JP, Aubel AJ, Buggs S, Knoepke CE, Pallin R, Shev AB, Tomsich E, Wintemute GJ, Kravitz-Wirtz N.** Extreme risk protection orders, race/ethnicity, and equity: evidence from California. *Preventive Medicine*. 2022. Online publication ahead of print August 6. DOI: 10.1016/j.ypmed.2022.107181.

**Pear VA, Wintemute GJ, Jewell N, Ahern J.** Firearm violence following the implementation of California's gun violence restraining order law. *JAMA Network Open*. 2022; 5(4): e224216. [doi:10.1001/jamanetworkopen.2022.4216](https://doi.org/10.1001/jamanetworkopen.2022.4216).

Rowhani-Rahbar, A, **Schleimer, JP**, Moe, CA, Rivara, FP, Hill, HD. Income Support Policies and Firearm Violence Prevention: A Scoping Review. *Preventive Medicine*. 2022. Published online ahead of print. [doi.org/10.1016/j.ypmed.2022.107133](https://doi.org/10.1016/j.ypmed.2022.107133)

**Schleimer, JP, Buggs, SA, McCort, CD, Pear, VA, De Biasi, A, Tomsich, E, Shev, AB, Laqueur, HS, Wintemute, GJ.** Neighborhood racial and economic segregation and disparities in violence during the coronavirus pandemic. *American Journal of Public Health*. 2022;112:144-153. Doi:10.2105/AJPH.2021.306540

**Schleimer JP, Pear VA, McCort CD, Shev AB, De Biasi A, Tomsich EA, Buggs S, Laqueur HS, Wintemute GJ.** Unemployment and crime in US cities during the coronavirus pandemic. *Journal of Urban Health*. 2022;99,82–91. [doi:10.1007/s11524-021-00605-3](https://doi.org/10.1007/s11524-021-00605-3)

**Schleimer, JP**, Smith, N, Zaninovic, V, Keyes, KM, Castillo-Carniglia, A, Rivera-Aguirre, A, Cerdá, M. Trends in the sequence of initiation of alcohol, tobacco, and marijuana use among adolescents in Argentina and Chile from 2001 to 2017. *Int J Drug Policy*. 2022;100:103494. [doi:10.1016/j.drugpo.2021.103494](https://doi.org/10.1016/j.drugpo.2021.103494).

Studdert DM, Zhang Y, Holsinger EE, Prince L, Holsinger AF, Rodden JA, **Wintemute GJ**, Miller M. Homicide deaths among cohabitants of handgun owners in California, 2004-2016. *Annals of Internal Medicine*. 2022. Online publication ahead of print April 5. DOI: 10.7326/M21-3762.

Thomas AC, **Wintemute G**, Nathens AB, Subacius H, Stey AM, Bilimoria KY, Campbell B. The association between gun shows and firearm injuries: an analysis of 259 gun shows across 23 cities. *Preventive Medicine*. 2022 August; 161: 107110.

Tseregounis E, Delcher C, Stewart SL, Gasper JJ, **Shev AB, Crawford A, Wintemute G**, Henry SG. The impact of California wildfires on patient access to prescription opioids. *Journal of the American Pharmacists Association*. 2022. Online publication ahead of print May 13. DOI: 10.1016/j.japh.2022.05.012.

**Wintemute GJ, Aubel AJ, Pallin RS, Schleimer JP, Kravitz-Wirtz N.** Experiences of violence in daily life among adults in California: a population-representative survey. *Injury Epidemiology*. 2022 Jan 3; 9: 1. DOI: 10.1186/s40621-021-00367-1.

**Wintemute GJ, Robinson S, Crawford A, Schleimer JP, Barnhorst A, Chaplin V, Tancredi D, Tomsich EA, Pear VA.** Views of American democracy and society and support for political violence: first report from a nationwide population-representative survey. (Preprint.) *medRxiv*. 2022 July 19. DOI: 10.1101/2022.07.15.22277693.

## MANUSCRIPTS IN PRESS

Braga AA, Barao LM, **Wintemute GJ**, Valle S, Valente J. Privately made firearms, newly purchased firearms, and the rise of urban gun violence. To be published by *Preventive Medicine*.

**Kagawa RMC**, Calnin B, **Smirniotis C**, Cerdá M, **Wintemute G**, Rudolph KE. Effects of building demolitions on firearm violence in Detroit, Michigan. To be published by *Preventive Medicine*.

**Kagawa RMC**, **Charbonneau A**, **McCort C**, McCourt A, Vernick J, Webster D, **Wintemute G**. Effects of comprehensive background check policies on firearm fatalities in four states. To be published by the *American Journal of Epidemiology*.

**Pear VA**, **Wintemute GJ**, Jewell NP, Ahern J. The role of firearm and alcohol availability in firearm suicide: a population-based weighted case-control study. Submitted to *Health & Place*.

**Smirniotis, C.**, Hendersen, M., Bailey, B., **Kagawa, R. M. C.** Crime and Building Rehabilitation or Demolition: A Dose-Response Analysis. IN PRESS.

**Wintemute G**, Bolstad K, Muller D. Gun violence in the United States. [Interactive Perspective] To be published Oct 6 by New England Journal of Medicine.

## MANUSCRIPTS UNDER REVIEW

**Aubel A**, **Wintemute G**, **Kravitz-Wirtz N**. “Anticipatory Concerns about Violence within Social Networks: Prevalence and Implications for Prevention.” *Preventive Medicine*.

Dalve, K, Ellyson, AM, Gause, E, Lyons, VH, **Schleimer, JP**, Kuklinski, MR, Oesterle, S, Briney, J, Weybright, EH, Rowhani-Rahbar, A. School Handgun Carrying among Youth Growing Up in Rural Communities. Submitted to *Journal of Adolescent Health*.

Ellyson, A, Gause, E, Lyons, VH, **Schleimer, JP**, Dalve, K, Kuklinski, MR, Oesterle, S, Weybright, EH, Rowhani-Rahbar, A. Bullying and physical violence and their association with handgun carrying among youth growing up in rural areas. Submitted to *Preventive Medicine*.

**Pear VA**, **Wintemute GJ**, Jewell NP, Ahern J. The role of firearm and alcohol availability in firearm suicide: a population-based weighted case-control study. Submitted to the *Journal of Health and Place*.

**Schleimer, JP**, **Kagawa, RMC**, **Laqueur, HS**. Association of Medical Conditions and Firearm Suicide Among Legal Firearm Purchasers in California. Submitted to *Annals of Internal Medicine*.

**Tomsich E**, **Crawford A**, **McCort C**, **Wintemute G**, **Laqueur H**. Firearm acquisition patterns and characteristics of California mass shooters. Submitted to *Criminology and Public Policy*.

**Tomsich E**, **Schleimer J**, **McCort C**, **Wintemute G**. Trends in domestic violence and firearm domestic violence during COVID-19 in five US cities. Submitted to the *American Journal of Preventive Medicine*.

**Wintemute GJ**. Divergent firearm violence death rates, California and the United States. Submitted as a research letter to the *New England Journal of Medicine*.

Zeoli AM, Frattaroli S, Barnard L, Bowen A, Christy A, Easter M, Kapoor R, Knoepke C, Ma W, Molocznik A, Norko M, Omaki E, Paruk JK, **Pear V**, Rowhani-Rahbar A, **Schleimer J**, Swanson J, **Wintemute GJ**. Extreme risk protection orders in response to mass shooting threats in six U.S. states: a descriptive study. Submitted to *Preventive Medicine*.

## PRESENTATIONS

**Barnhorst A**. Preventing Firearm Violence: What Clinicians Can Do, West Hills Medical Center, virtual, January 2022



- Barnhorst A.** National Academy of Sciences, Engineering and Medicine, Preventing Firearm Violence: What Clinicians Can Do, virtual, April 2022
- Barnhorst A.** Preventing Firearm Violence: What Clinicians Can Do, Fresno Madera Medical Society, El Portal, CA, April 2022
- Barnhorst A.** Responding to Threats of Violence, FBI and Infraguard, Sacramento, May 2022
- Barnhorst A.** Preventing Firearm Injury and Death: What Clinicians Can Do, Kaiser South Sacramento Trauma Grand Rounds, virtual, June 2022
- Barnhorst A.** Mental Health, Mental Illness, and COVID, Salesforce Data and Diversity, virtual, July 2022
- Barnhorst A.** Preventing Firearm Injury and Death: What Clinicians Can Do, Kaiser Los Angeles Grand Rounds, virtual, July 2022
- Barnhorst A.** Preventing Firearm Injury and Death: What Clinicians Can Do, Kaiser San Francisco Grand Rounds, virtual, July 2022
- Barnhorst A.** Preventing Firearm Injury and Death: What Clinicians Can Do, Stanford Internal Medicine Grand Rounds, virtual, July 2022
- Barnhorst A.** Preventing Firearm Injury and Death: What Clinicians Can Do, UC Davis Pediatric Trauma Surgery, virtual, August 2022
- Barnhorst A.** Preventing Firearm Violence, Trauma Managers Association of California, virtual, August 2022
- Barnhorst A.** Preventing Firearm Violence, UC San Francisco Pediatrics Grand Rounds, virtual, August 2022
- Barnhorst A.** The BulletPoints Project, Institute for High Quality Health Care, virtual, August 2022
- Barnhorst A.** Lethal Means Safety for Suicide Prevention, University of Pittsburg Medical Center, virtual, September 2022
- Buggs S.** 2022. "Community-Based Participatory Research." Health Alliance for Violence Intervention webinar, virtual.
- Buggs, S.** 2022. "Community Violence Intervention (CVI): A Community Centered Approach to Addressing Violence." U.S. Department of Justice's Bureau of Justice Assistance Project Safe Neighborhoods National Summit to Reduce Violence and Strengthen Communities, virtual.
- Buggs, S.** 2022. "Understanding Gun Violence Trends – Homicides and Suicides." U.S. Congressional briefing hosted by Arnold Ventures, virtual.
- Chaplin V.** Firearm Policy. BulletPoints webinar series. January 18, 2022.
- Kagawa, R.** Neighborhood variation in violence prevention approaches: a case study. Poster presentation at Society for Advancement of Violence and Injury Research conference, Washington D.C. March 2022.
- Kravitz-Wirtz N.** August 24, 2022. "Awareness and Willingness to Use California's GVRO Law." Convening on California's GVRO Law Implementation, Hope and Heal Fund and California Governor's Office of Emergency Services, virtual.
- Kravitz-Wirtz N.** September 12, 2022. "Research on Hospital-Based Violence Intervention (HVIP) Programs." University of Connecticut Gun Violence Prevention Research Interest Group (GVP-RIG), virtual.

**Laqueur, H.** Machine Learning Analysis of Handgun Transaction Records. Annual Conference of the Society for Epidemiologic Research, Chicago, IL. 2022.

**Pear VA.** Officer Knowledge, Training, and Willingness to Use Extreme Risk Protection Orders. Society for Advancement of Violence and Injury Research (SAVIR) 2022. Washington, D.C.; March 2022. [Oral Presentation]

**Pear VA.** Early Medicaid Expansion in California and Behavioral Health: Assessing the Role of Affordable Healthcare in Drug Overdose and Self-Harm Rates. Society for Epidemiologic Research (SER) 2022. Chicago, IL; June 2022. [Poster Presentation]

**Pear VA.** Implementation & Effectiveness of California's Extreme Risk Protection Order Law. Center for Evidence-Based Crime Policy's Annual Symposium, George Mason University. Arlington, VA. June 2022. [Oral Presentation]

**Pear VA.** GVRO Implementation: Key Findings. Hope & Heal Fund/California Governor's Office of Emergency Services' Convening on California's GVRO Law Implementation. Online; August 2022. [Oral Presentation]

**Pear VA.** Extreme Risk Protection Orders, Race/Ethnicity, and Equity. National ERPO Working Group. Online. September 2022. [Oral Presentation]

Richard Rosenfeld, Alfred Blumstein, **Schleimer, JP.** 17th Annual John Jay/Harry Frank Guggenheim Symposium on Crime in America. Panel on Crime Trends. March 3, 2022.

**Schleimer, JP.** Rural-urban variation in youth violence and handgun carrying in the United States, 2002-2019. National Research Conference on Firearm Injury Prevention. November, 30 2022.

**Schleimer, JP.** Improving causal inference in firearm policy research: A review of confounder selection. National Research Conference on Firearm Injury Prevention. November, 30 2022.

**Schleimer, JP.** Measuring firearm-related violent crime using Criminal Legal System records: Challenges and opportunities. National Research Conference on Firearm Injury Prevention. November, 30 2022.

**Schleimer, JP.** Extreme Risk Protection Orders and Race/Ethnicity: Evidence from Public Opinion and Implementation in California. Society for Advancement of Violence and Injury Research (SAVIR) 2022.

**Schleimer, JP.** Association of downgraded felony convictions and subsequent violent and firearm-related crime perpetration in Washington State. Society for Epidemiologic Research (SER) 2022.

**Schleimer, JP.** Causal Inference in Firearm Policy Research: A Scoping Review. Society for Epidemiologic Research (SER) 2022.

**Shev AB.** "The Functional Synthetic Control Method." Annual Conference of the Society for Epidemiologic Research, Chicago, IL. June 15, 2022.

**Shev AB.** "The Functional Synthetic Control Method." The Joint Statistical Meetings, Washington DC, August 10, 2022.

**Tomsich, E.** Trends in Domestic Violence and Firearm Domestic Violence During COVID-19 in Five US Cities. Machine Learning Analysis of Handgun Transaction Records. Annual Conference of the Society for Epidemiologic Research, Chicago, IL. 2022.

**Wintemute G.** Crede Visiting Professorship, Departments of Family and Community Medicine, Internal Medicine, and Pediatrics, University of California San Francisco, January 2022. 3 presentations.

**Wintemute G.** Firearm violence. Public Health 116, UC Berkeley, January 31, 2022.

**Wintemute G.** Risks of political violence. California Firearms Strategy Group, February 17, 2022.

**Wintemute G.** Firearm violence. Poli Sci 747, UCLA, February 22, 2022.

**Wintemute G.** SciLine: Firearm violence. American Association for the Advancement of Science. February 28, 2022.

**Wintemute G.** Briefing (1:1) on firearm violence for Congressman Mike Thompson, Chair, House of Representatives Gun Violence Prevention Task Force, March 14, 2022.

**Wintemute G.** Virtual roundtable on firearm violence prevention, hosted by Congressman Mark DeSaulnier, March 24, 2022.

**Wintemute G.** What you can do about firearm violence. UC Davis SOM alumni association, April 9, 2022.

**Wintemute G.** Firearm violence. Briefing for the House of Representatives Gun Violence Prevention Task Force. June 6, 2022.

**Wintemute G.** Extreme risk protection orders: what the research tells us. Webinar hosted by the Joyce Foundation, June 9, 2022.

**Wintemute G.** Red flag laws: how they work and what the research shows. Poynter Institute, June 13, 2022.

**Wintemute G.** Firearm violence. Briefing for staff to the House of Representatives Joint Economic Committee. (Single presenter, for an hour.) June 26, 2022.

**Wintemute G.** Addressing the public health crisis of gun violence. Silicon Valley Leadership Group. June 28, 2022.

**Wintemute G.** Firearm violence. Western Pediatric Trauma Society. July 13, 2022.

**Wintemute G.** Firearm violence: what we can do. Pediatric Emergency Care and Research Network. August 11, 2022.

**Wintemute G.** Views of American democracy and society and support for political violence. ADL/National Urban League Project CODE. September 14, 2022.

**Wintemute G.** Firearm violence: what we can do. Pediatric Emergency Medicine Program, University of Arizona. September 14, 2022.

**Wintemute G.** Views of American democracy and society and support for political violence. Institute for Constitutional Advocacy and Protection, Georgetown University. Northwest Regional Conference. September 15 2022.

**Wintemute G.** Firearm violence: what we can do. Grand Rounds, Department of Pediatrics, UCSF Zuckerberg San Francisco General Hospital, September 20, 2022.

**Wintemute G.** Moving beyond the rhetoric: how emergency medicine is leading firearm injury prevention. (Brooks Bock Keynote Lecture, Research Forum, annual meeting, American College of Emergency Physicians. October 2, 2022.

**Wintemute G.** Political violence. California Homeland Security Advisory Committee. October 3, 2022.

## OTHER NOTABLE RESEARCH CONTRIBUTIONS

**Bugs S.** 2022. "Community-Based Violence Interruption and Public Safety." Arnold Ventures.

Rowhani-Rahbar, A, **Schleimer JP.** Gun Violence Epidemiology. In: Ahrens, W., & Pigeot, I. (eds). The Handbook of Epidemiology. New York: Springer, 2022. (in press)

## COMMENTARIES AND EDITORIALS

**Barnhorst A, Wintemute G.** We see it firsthand: red flag laws save lives. The Hill. 2022 June 25. Available at <https://thehill.com/opinion/healthcare/3535639-we-see-it-firsthand-red-flag-laws-save-lives/>.

**Lund J, Chaplin V.** How many more must die from firearm violence? MedPage Today. 2022 May 26. Available at <https://www.medpagetoday.com/opinion/second-opinions/98934>

**Pear VA.** Here's How to Make Red-Flag Laws Most Effective Against Gun Violence. *The Washington Post*. Published July 14, 2022. <https://www.washingtonpost.com/opinions/2022/07/14/heres-how-make-red-flag-laws-most-effective-against-gun-violence/>

**Wintemute GJ.** Political violence and the future of democracy: Take a look in the mirror, America. *The Hill*. 2022 July 25. Available at <https://thehill.com/opinion/national-security/3573053-political-violence-and-the-future-of-democracy-take-a-look-in-the-mirror-america/>.

## MEDIA SPOTLIGHTS

Barrow, Genoa. Aug 15, 2022. "Researcher Takes Aim At Gun Violence: **Dr. Shani Buggs** Lends Expertise to Local, National Discussion." *The Observer*. <https://sacobserver.com/2022/08/researcher-takes-aim-at-gun-violence/>

"Governor Newsom Launches New Initiative to Protect Californians from Gun Violence," June 3, 2022, Office of Gavin Newsom Press Release. <https://www.gov.ca.gov/2022/06/03/governor-newsom-launches-new-initiative-to-protect-californians-from-gun-violence/>

[An expert on trends in gun sales and gun violence in pandemic America](#)

[California Has Toughest Gun Laws in United States and Fewer Deaths - The New York Times](#)

[Hiltzik: California proves tough gun laws reduce deaths - Los Angeles Times](#)

[Hiltzik: The shallowness of the congressional gun deal - Los Angeles Times](#)

[Editorial: Keep at it, senators. Modest action on gun safety is better than nothing at all - Los Angeles Times](#)

[Red Flag Laws May Have Helped Prevent Dozens of Mass Shootings, New Research Shows – Mother Jones](#)

[For Gun Violence Researchers, Bipartisan Bill Is a 'Glass Half Full' - The New York Times](#)

[Half of Americans anticipate a U.S. civil war soon, survey finds | Science | AAAS](#)

[American Democracy is on the brink as a growing number of people anticipate a civil war, new survey shows.](#)

[Half of Americans anticipate a U.S. civil war soon, survey finds | Science | AAAS](#)

[One in five US adults condone 'justified' political violence, mega-survey finds | US news | The Guardian](#)

[A study asked Americans if they could support political violence. Half said they think a civil war is coming](#)

[Survey finds alarming trend toward political violence](#)

[One in 5 U.S. Adults Accepts Political Violence, Survey Finds - The New York Times](#)

[Lopez: Survey on political violence is beyond scary - Los Angeles Times](#)

[US political violence is surging, but talk of a civil war is exaggerated – isn't it? | US news | The Guardian](#)

[America's Most Underserved Areas Saw Gun Crime Rise Early in the Pandemic – Study | The Guardian](#)  
[Gun Sales Up During The Pandemic And So Are Homicides | Cincinnati Public Radio](#)

[Pandemic Gun Violence Surge Was Not Linked to Rise in Gun Sales, Study Finds | The Guardian](#)

[UC Davis study: How gun violence restraining orders were impacted by race, ethnicity](#) | KCRA3

[“Gun Seizures Don’t Curb Injuries,”](#) *Science*

[Are 'red flag' laws working as intended in California?](#), *KCRA (TV); Yahoo*

[‘Red flag’ law in California kept guns from 58 potential mass shooters, research show](#), *The State; Governing.com; MSN*

[“Editorial: Keep at it, senators. Modest action on gun safety is better than nothing at all,”](#) *Los Angeles Times*

[“The U.S. Senate gun safety deal may seem like small potatoes — but it’s not,”](#) *Los Angeles Times*

[“Ask PolitiFact: What are red flag gun laws and do they keep people safe?”](#) *PolitiFact*

[“米 小学校銃撃事件から1か月 連邦議会下院で銃規制の法案可決,”](#) *NHK* (Japanese public broadcasting)

[“The Bipartisan Gun Deal Represents Slow, Painful Progress,”](#) *The New Yorker*

[“States Want to Make it Easier to Use Red Flag Laws,”](#) *Stateline/Pew*

[What makes "red flag" gun laws work](#), *AXIOS*

[What Are Red Flag Laws—and How Can They Save Lives?](#), *Reader’s Digest*

[California's Answer to Gun Violence Could Be a Model for the Entire Country](#), *TIME*

[Illinois red flag law under scrutiny: In wake of Highland Park shooting, experts call for greater use](#), *Chicago Tribune*

## 2021

### JOURNAL ARTICLES

**Aubel A, Pallin R, Wintemute G, Kravitz-Wirtz N.** 2021. “Exposure to violence, firearm involvement, and socioemotional consequences among California adults.” *Journal of Interpersonal Violence* 36(23-24): 11822-11838. doi:10.1177/0886260520983924.

**Barnhorst A, Gonzales H, Asif-Sattar R.** (2021) Suicide Prevention Efforts in the United States and their Effectiveness. *Curr Opin Psychiatry*. Jan 5 PMID: 33405481

**Barnhorst A, Rozel JS.** Evaluating threats of mass shootings in the psychiatric setting. *Int Rev Psychiatry*. 2021 Jul 16:1-10. PMID: 34269150.

**Buggs SA, Webster DW, Crifasi CK.** 2021. “Using synthetic control methodology to estimate effects of a *Cure Violence* intervention in Baltimore, Maryland.” *Injury Prevention*, 28: 61-67. <https://doi.org/10.1136/injuryprev-2020-044056>.

**Buggs S, Zeoli A.** 2021. “Gun homicide research: what we know and where we need to go.” *Homicide Studies*, 26(1): 11-26. <https://doi.org/10.1177/10887679211048495>

Hoops K, Fahimi J, Khoeur L, Studenmund C, Barber C, **Barnhorst A**, Betz ME, Crifasi CK, Davis JA, Dewispelaere W, Fisher L, Howard PK, Ketterer A, Marcolini E, Nestadt PS, Rozel J, Simonetti JA, Spitzer S, Victoroff M, Williams BH, Howley L, Ranney M. (2021) Consensus Driven Priorities for Firearm Injury Education among Medical Professionals: Results of the CONFIRM Consortium. *Acad Med* Jul 7, 2021

**Kravitz-Wirtz N, Aubel A, Pallin R, Wintemute G.** 2021. “Public Awareness of and Personal Willingness to Use California’s Extreme Risk Protection Order Law.” *JAMA Health Forum* 2(6): e210975. doi:10.1001/jamahealthforum.2021.0975.

- Kravitz-Wirtz N, Aubel A, Schleimer J, Pallin R, Wintemute G.** 2021. "Public Concern about Violence, Firearms, and the COVID-19 Pandemic in California." *JAMA Network Open* 4(1):e2033484-e2033484. doi:10.1001/jamanetworkopen.2020.33484.
- Kravitz-Wirtz N, Pallin R, Kagawa R, Miller M, Azrael D, Wintemute G.** 2021. "Firearm Purchases Without Background Checks in California." *Preventive Medicine* 145: 106414. doi:10.1016/j.ypmed.2020.106414.
- Pallin R, Aubel A, Knoepke C, Pear V, Wintemute G, Kravitz-Wirtz N.** 2021. "News media coverage of extreme risk protection order policies: A mixed-methods analysis." *BMC Public Health* 21(1): 1986. doi:10.1186/s12889-021-11909-z.
- Pallin R. and Barnhorst A.** Clinical strategies for reducing firearm suicide. *Injury Epidemiology*. 2021 Oct 4;8(1):57. PMID: 34607607
- Pallin R, Wintemute G, Kravitz-Wirtz N.** 2021. "Firearm Practices, Perceptions of Safety, and Opinions on Injury Prevention Strategies Among California Adults With vs Without Children." *JAMA Network Open* 4(8): e2119146. doi:10.1001/jamanetworkopen.2021.19146.
- Pallin R, Wintemute G, Kravitz-Wirtz N.** 2021. "What does it depend on?": Perceptions of safety related to firearms in homes and neighborhoods." *PLOS One* 16(12): e0261038.
- Swanson JW, Nestadt PS, **Barnhorst AV**, Frattaroli S. (2021) Risk-Based Temporary Firearm Removal Orders: A New Legal Tool for Clinicians. *Harv Rev Psychiatry*. Jan-Feb 01;29(1):6-9. PMID: 33417372
- Schleimer J, Wintemute G, Kravitz-Wirtz N.** 2021. "Firearm Ownership and Perceived Risk of Personal Firearm Injury." *Injury Prevention* 27:277-279. doi:10.1136/injuryprev-2020-043869.
- Schleimer, JP, Kagawa, RMC, Laqueur, HS.** Handgun purchasing characteristics and firearm suicide risk: A case control analysis. *Injury Epidemiology*. 2021;8-68. doi.org/10.1186/s40621-021-00365-3
- Schleimer, JP, McCort, CD, Pear, VA, Shev, A, Tomsich, E, Asif-Sattar, A, Buggs, S, Laqueur, HS, Wintemute, GJ.** Firearm purchasing and firearm violence during the coronavirus pandemic in the United States: a cross-sectional study. *Inj Epidemiol*. 2021;8(43). doi:10.1186/s40621-021-00339-5
- Schleimer, JP, McCort, CD, Tomsich, EA, Pear, VA, De Biasi, A, Buggs, S., Laqueur, HS, Shev, AB, Wintemute, GJ.** Physical distancing, violence, and crime in US cities during the coronavirus pandemic. *Journal of Urban Health*. 2021;98(6):772-776. doi:10.1007/s11524-021-00593-4
- Schleimer, JP, Wright, MA, Shev, AB, McCort, CD, Asif-Sattar, R, Sohl, S, Stewart, S, Wintemute, GJ, Kagawa, RMC.** Alcohol and drug offenses and suicide risk among men who purchased a handgun in California: A cohort study. *Preventive Medicine*. 2021;153:106821. doi:10.1016/j.ypmed.2021.106821
- Tomsich, E. A., Schleimer, J., Wright, M. A., Stewart, S. L., Wintemute, G. J., Kagawa, R.M.** Intimate partner violence and subsequent violent offending among handgun purchasers. *Journal of Interpersonal Violence*. 2021; 08862605211057268.

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- Buggs S, Glover L.** November 8, 2021. "Community violence intervention works, with the right support. So let's support it." *Next City*. <https://nextcity.org/urbanist-news/entry/community-violence-intervention-works-with-right-support-so-lets-support-it>
- Buggs S, Kravitz-Wirtz N.** July 20, 2021. "Championing the Role of Health System Leadership in Creating Community Safety." *Modern Healthcare*.



## PRESENTATIONS

**Buggs S.** 2021. “Equity on the Front Line: A Conversation with Frontline Workers and Allies.” 2021 Health Alliance for Violence Intervention Conference, virtual.

**Buggs S.** 2021. “Gun Violence and Public Health.” Center on Media, Crime, and Justice at John Jay College’s webinar series, virtual.

**Buggs S.** 2021. Briefing, United States House of Representatives Gun Violence Prevention Task Force, virtual.

**Buggs S.** 2021. “Community Violence Intervention.” United States Bureau of Justice Assistance Community Violence Intervention (CVI) webinar series: “Part 1: Evidence-Based Theory and Research on CVI,” virtual.

**Buggs S.** 2021. United States Conference of Mayors’ “Reimagining Public Safety Summit,” virtual.

**Buggs S.** 2021. “Reducing Violence, Restoring Confidence.” Council on Criminal Justice webinar, virtual.

**Buggs S.** 2021. “Guns in Crisis: Gun Culture, Gun Violence, and Coronavirus.” University of Arizona webinar, virtual.

**Buggs S.** 2021. “Data-Driven Solutions for Gun Industry Oversight.” Brady United Against Gun Violence webinar, virtual. <https://www.bradyunited.org/blog/biden-harris-first-100-days-gun-violence>

**Buggs S, Wintemute G.** 2021. “The Current State of Gun Violence in the U.S.” CFLeads webinar, virtual.

**Buggs S.** 2021. “Turning Talk into Action. A Series of Conversations About Public Health and Community Violence.” Philadelphia Department of Public Health Violence Prevention Roundtable, virtual.

**Buggs S.** 2021. “A Public Health Approach to Ending Gun Violence.” 2021 Live Free-Chicago Conference, virtual.

**Buggs S.** 2021. “The State of Gun Violence Research – Past, Present and Future.” The Joyce Foundation webinar, virtual.

**Buggs S.** 2021. “Public Deliberation Allows Residents to Articulate Community Values and Weigh in on Local Police Reforms.” Poster, 2021 Interdisciplinary Association for Population Health Science Conference, virtual.

**Buggs S.** 2021. “Community Violence.” 2021 Pediatric Academic Societies Conference Session: “The Triple Threats of Our Times: Race-Based Health Disparities in COVID-19, Adverse Policing, and Community Violence,” virtual.

**Pear VA.** The Joint Role of Firearm and Alcohol Availability in Intentional Firearm Injury. Society for Epidemiologic Research (SER) 2021. Online; June 2021. [Poster Presentation]

**Pear VA.** Implementation of California’s Gun Violence Restraining Order Law and Firearm Violence Injury: A Synthetic Control Analysis. Firearm Safety Among Children and Teens (FACTS) Symposium 2021. Online; October 2021. [Oral Presentation]

**Pear VA.** Firearm Access, Opioid Use, and Firearm Suicide Mortality. CDC National Center for Injury Prevention and Control Firearm-Related Violence and Injury Prevention Research Grants Reverse Site Visit. Online; November 2021. [Oral Presentation]

**Schleimer, JP.** Association of Unemployment and Violence and Crime in US Cities During the Coronavirus Pandemic. Society for Epidemiologic Research (SER) 2021.

**Wintemute G.** Can California Help America Reduce Gun Violence? The California Wellness Foundation /Zocalo Public Square-Arizona State University, August 19, 2021

**Wintemute G.** Firearm violence. Public Health 116, UC Berkeley, September 20, 2021.

**Wintemute G.** Firearm violence policy developments. Brady Leadership Council. Northern California, September 21, 2021; Southern California, October 5, 2021.

## MEDIA SPOTLIGHTS

[“Red Flag Laws Are Saving Lives. They Could Save More.”](#) *Stateline/Pew*

[“Dollars and Sense for Red Flag Laws,”](#) *The Trace*

[“California’s ‘Red Flag Law’ Hampered by Funding, Coordination Issues: Study,”](#) *The Crime Report*

[“Report finds more resources needed to implement ‘red flag’ gun laws effectively,”](#) *Scripps Media/ABC (TV)*

## UPDATE as of October 2020

### REPORTS

California Department Public Health, Injury and Violence Prevention Branch and the California Department of Social Services, Office of Child Abuse Prevention, California Essentials for Childhood Initiative, the University of California, Davis Violence Prevention Research Program, the University of California, Firearm Violence Research Center. Adverse Childhood Experiences Data Report: Behavioral Risk Factor Surveillance System (BRFSS), 2011-2017: An Overview of Adverse Childhood Experiences in California. CA: California Department of Public Health and the California Department of Social Services; 2020.

Expert Panel on Firearms Data Infrastructure. A Blueprint for a U.S. Firearms Data Infrastructure. Bethesda, MD: NORC at the University of Chicago, 2020.

### JOURNAL ARTICLES

Betz ME, Azrael D, Johnson RL, Knoepke CE, Ranney ML, **Wintemute GJ**, Matlock D, Suresh K, Miller M. Views on firearm safety among caregivers of people with Alzheimer's disease and related dementias. *JAMA Network Open*. 2020;3(7):e207756. DOI:10.1001/jamanetworkopen.2020.7756.

Betz ME, Miller M, Matlock DD, **Wintemute GJ**, Johnson RL, Grogan C, Lum HD, Knoepke CE, Ranney ML, Suresh K, Azrael D. Older firearm owners and advance planning: results of a national survey. *Annals of Internal Medicine*. 2020. Online publication ahead of print October 6.

Diurba S, Johnson R, Siry B, Knoepke CE, Suresh K, Simpson S, Azrael D, Matlock DD, Ranney M, **Wintemute GJ**, Betz ME. Lethal means assessment and counseling in the emergency department: Differences by provider type and personal home firearm. *Suicide and Life-Threatening Behavior*. 2020; 50(5): 1054-1064.

**Kravitz-Wirtz N, Aubel A, Schleimer J, Pallin R, Wintemute G.** Violence, firearms, and the coronavirus pandemic: Findings from the 2020 California Safety and Wellbeing Survey; medRxiv 2020.10.03.20206367. doi: <https://doi.org/10.1101/2020.10.03.20206367>.

**Laqueur, H., Wintemute, G.** “Identifying High Risk Firearm Owners to Prevent Mass Violence.” *Criminology & Public Policy*. 2020.



**Pear VA, McCort CD, Kravitz-Wirtz N, Shev AB, Rowhani-Rahbar A, Wintemute GJ.** Risk factors for assaultive reinjury and death following a nonfatal firearm assault injury: a population-based retrospective cohort study. *Preventive Medicine*. 2020; online publication ahead of print July 9. DOI: 10.1016/j.ypmed.2020.106198.

**Schleimer, JP, McCort, CD, Pear, VA, Shev, A, Tomsich, E, Asif-Sattar, R, Buggs, S, Laqueur, HS, Wintemute, GJ.** Firearm Purchasing and Firearm Violence in the First Months of the Coronavirus Pandemic in the United States. Preprint; medRxiv 2020; doi:<https://doi.org/10.1101/2020.07.02.20145508>

**Schleimer J, Pallin R, Wintemute G, Charbonneau A, Kravitz-Wirtz N.** Patterns of Firearm Ownership and Opinions on Firearm Policies Among Adults in California. *JAMA Network Open* 3(7): e2012096. doi:10.1001/jamanetworkopen.2020.12096.

**Tomsich E, Kravitz-Wirtz N, Pallin R, Wintemute G.** LGBT Firearm Ownership: Findings from the 2018 California Safety and Wellbeing Survey. *Violence and Gender* 7(3): 102-108. doi: 10.1089/vio.2020.0024.

**Wintemute GJ, Pear VA, Schleimer JP, Pallin R, Sohl S, Kravitz-Wirtz N, Tomsich EA.** Extreme risk protection orders intended to prevent mass shootings: A case series. *Annals of internal medicine*. 2019 Nov 5;171(9):655-8.

## EDITORIALS AND COMMENTARIES

**Wintemute GJ.** Health professionals, violence, and social change. *Annals of Internal Medicine*. 2020; online publication ahead of print August 4. DOI: 10.7326/M20-4411.

## PRESENTATIONS

**Aubel A, Pallin R, Kravitz-Wirtz N.** (2020). "Violence, Firearms, and COVID-19: Findings from the 2020 California Safety and Wellbeing Survey (CSaWS)." Presented at the Firearm Safety Among Children and Teens (FACTS) Annual Symposium.

**Kravitz-Wirtz N, Aubel A, Pallin R, Wintemute G.** (2019). "Socioemotional Consequences of Exposure to Violence: Does Firearm Involvement Exacerbate the Impact of a Violent Event?" Poster presented at APHA's 2019 Annual Meeting & Exposition. Philadelphia, PA.

**Kravitz-Wirtz N, Pallin R, Schleimer J, Charbonneau A, Buggs S, Miller M, Azrael D, Wintemute G.** (2019). "Results From a 2018 Survey on Firearm-Related Topics in California." Presented to the "Firearm Violence: New Findings from UCFC, the University of California Firearm Violence Research Center" session at the 2019 American Society of Criminology Annual Meeting. San Francisco, CA.

**Kravitz-Wirtz N, Schleimer J, Pallin R, Wintemute G.** (2020). "Perceived and objective assessments of neighborhood safety and gun violence worries among California adults." Presented at APHA's 2020 Annual Meeting & Exposition.

**Pallin R, Aubel A, Wintemute G, Kravitz-Wirtz N.** 2020. "It depends: Perceptions of safety related to firearm ownership and carrying." Presented at APHA's 2020 Annual Meeting & Exposition.

**Pallin R, Aubel A, Kravitz-Wirtz N.** (2020). "Safety, Firearms, and Children: Findings from the 2018 California Safety and Wellbeing Survey." Presented at the Firearm Safety Among Children and Teens (FACTS) Annual Symposium.

**Schleimer J, Pallin R, Wintemute G, Charbonneau A, Kravitz-Wirtz N.** (2020). "Patterns of firearm ownership and opinions on firearm policies in California." Presented at APHA's 2020 Annual Meeting & Exposition.

**Schleimer, JP, Matthew Miller, Cid Martinez.** (July 28, 2020). "When Two Public Health Crises Collide: The Surge in Gun Sales, A Rise in Gun Violence" Hope and Heal Fund

**Schleimer, JP, McCort, C, Shev, A, Pear, VA, Wintemute, GJ, Moulin, AK.** "Prescription opioid availability and the evolving epidemiology of suicide in California." Planned poster presentation at the 2020 annual meeting of the Society for Epidemiologic Research.

**Pallin R, Wintemute G, Kravitz-Wirtz N.** (2020). "Preventing firearm injury in children: Findings from the California safety and wellbeing survey (CSaWS)." Presented at APHA's 2020 Annual Meeting & Exposition.

**Schleimer, JP, Wintemute, GW.** (August 10, 2020). "Gun Violence and the COVID-19 Pandemic." The Joyce Foundation Lunch & Learn Webinar Series.

**Tomsich E, Kravitz-Wirtz N, Pallin R, Wintemute G.** (2019). "Firearm Ownership Among LGBT California Adults." Poster presented at APHA's 2019 Annual Meeting & Exposition. Philadelphia, PA.

**Wintemute, GW.** (October 2020). "Violent injuries in children and teens." Kaiser-Permanente 2020 Pediatrics Symposium.

**Wintemute, GW, Schleimer, JP, Studdert, D.** (September 22, 2020). "COVID-19 and Gun Violence" Presentation for SAFE: Scrubs Addressing the Firearm Epidemic.

## As of May 2020

### JOURNAL ARTICLES

**Kagawa RMC, Pear VA, Rudolph KE, Keyes KM, Cerdá M, Wintemute GJ.** Psychological distress and daily functioning following firearm victimization: sociodemographic specific responses. *Annals of Epidemiology*. 2020; 41: 35-42.

**Kravitz-Wirtz N, Pallin R, Miller M, Azrael D, Wintemute G.** "Firearm Ownership and Acquisition in California: Findings from the 2018 California Safety and Wellbeing Survey." *Injury Prevention*. Published Online First: 05 December 2019. doi: 10.1136/injuryprev-2019-043372.

**Laqueur HS, Wintemute GJ.** Identifying high risk firearm owners to prevent mass violence. [Invited article.] *Criminology and Public Policy*. 2019. Online publication ahead of print December 16. DOI: 10.1111/1745-9133.12477.

**Pallin R, Charbonneau A, Kravitz-Wirtz N, Wintemute GJ.** Public Opinion on Firearm Injury Prevention Proposals in California. *JAMA Netw Open*. 2020;3(1):e1918786. Published 2020 Jan 3. doi:10.1001/jamanetworkopen.2019.18786

**Pallin R, Charbonneau A, Wintemute GJ, Kravitz-Wirtz N.** California Public Opinion On Health Professionals Talking With Patients About Firearms. *Health Aff (Millwood)*. 2019;38(10):1744-1751. doi:10.1377/hlthaff.2019.00602

**Pallin R, Schleimer JP, Pear VA, Wintemute GJ.** Assessment of Extreme Risk Protection Order Use in California From 2016 to 2019. *JAMA Netw Open*. 2020;3(6):e207735. Published 2020 Jun 1. doi:10.1001/jamanetworkopen.2020.7735

**Pallin R, Spitzer SA, Ranney ML, Betz ME, Wintemute GJ.** Preventing Firearm-Related Death and Injury. *Ann Intern Med*. 2019;170(11):ITC81-ITC96. doi:10.7326/AITC201906040

**Pear V, McCort C, Li Y, Beckett L, Tancredi D, Kass PH, Studdert D, Pierce G, Braga A, Wright M, Laqueur H, Kravitz-Wirtz N, Wintemute GJ.** Armed and prohibited: characteristics of unlawful owners of legally purchased firearms. *Injury Prevention*. 2020. Online publication ahead of print March 10. DOI:10.1136/injuryprev-2019-043479).

**Schleimer, JP.** Firearm injury prevention: Is progress in the details? Blog: *Injury Prevention*. October, 2019. Available online at: <https://blogs.bmj.com/injury-prevention/2019/10/11/firearm-injury-prevention/>

**Schleimer JP, Kravitz-Wirtz N, Pallin R, Charbonneau, AK, Buggs, SA, Wintemute, GW.** Firearm ownership in California: A latent class analysis. *Injury Prevention*. Published Online First: 10 October 2019. doi: 10.1136/injuryprev-2019-043412

Spitzer SA, **Pear VA, McCort CD, Wintemute GJ**. The epidemiology and lethality of firearm injuries in California, 2005-2015. JAMA Netw Open. 2020; In Press.

Studdert DM, Zhang Y, Swanson SA, Prince L, Rodden JA, Holsinger EE, Spittal MJ, **Wintemute GJ**, Miller MJ. Handgun ownership and suicide in California. New England Journal of Medicine. 2020; 382: 2220-2229.

## PRESENTATIONS

**Buggs S.** (July 2019). “Understanding and Preventing Interpersonal Gun Violence in U.S. Cities.” Faculty presenter at the Johns Hopkins Center for Gun Policy and Research Summer Youth Institute, Baltimore, MD.

**Buggs S.** (July 2019). “Understanding and Preventing Urban Gun Violence.” Panelist at the Congressional Briefing on Gun Violence in Communities of Color, Washington, DC.

**Buggs S.** (September 2019). “Interventions with High-Risk Individuals: Group and Cure Violence Intervention.” Panelist at the American Public Health Association and Johns Hopkins Bloomberg American Health Initiative Forum: “Policies that Work to Reduce Gun Violence.” Washington, DC.

**Buggs S.** (September 2019). “Myths Surrounding Intra-City Gun Violence in the U.S.” Panelist at the “Gun Violence as a Public Health Issue” Research Symposium at Indiana University, Bloomington, IN.

**Buggs S.** (November 2019). “Evaluating the Impact of Drug Law Enforcement on Gun Violence in Baltimore, Maryland.” Panelist at the American Society of Criminology Conference, San Francisco, CA.

**Buggs S.** (December 2019). “Understanding and Preventing Gun Violence in California.” Panelist for the “Stand Up: Perspectives on Parkland, Gun Violence, and Public Safety” Workshop at the Beyond the Bench Conference, San Diego, CA.

**Buggs S., Kravitz-Wirtz N.** (December 2019). “Firearm Violence Research and Prevention.” Presentation to the Sacramento County Public Health Advisory Board, Sacramento, CA.

Diurba S, Johnson RL, Siry BJ, Knoepke CE, Suresh K, Simpson SA, Azrael D, Ranney ML, **Wintemute GJ**, Betz ME. Emergency department provider attitudes and behaviors regarding lethal means assessment and counseling. Accepted for presentation at the 2020 annual meeting of the Society for Academic Emergency Medicine. (Conference cancelled due to coronavirus pandemic.)

**Kagawa R, Laqueur H, Stewart S, Buggs S, Charbonneau A, Kravitz-Wirtz N, McCort C, Pear V, Schleimer J, Tomsich E, Wright M, Wintemute GJ.** Using criminal data for research and policy: the potential for built-in bias. Presented at the session, Firearm Violence: New Findings from UCFC, the University of California Firearm Violence Research Center, 2019 annual meeting of the American Society of Criminology.

**Kravitz-Wirtz N.** 2019. “The Impacts of Gun Violence on Youth Mental Health.” Invited Testimony to the California State Assembly Select Committee on Youth Mental Health, Oakland, CA.

**Kravitz-Wirtz, Nicole, Pallin, Rocco, Wintemute, Garen.** Firearm Ownership Among LGBT California Adults Presentation at the 2019 annual meeting of the American Public Health Association, Philadelphia, PA, November.

**Kravitz-Wirtz N, Pallin R, Schleimer J, Charbonneau A, Buggs S, Miller M, Azrael D, Wintemute GJ.** Results from a 2018 survey on firearm-related topics in California. Presented at the session, Firearm Violence: New Findings from UCFC, the University of California Firearm Violence Research Center, 2019 annual meeting of the American Society of Criminology.

**Kravitz-Wirtz N, Pallin R, Schleimer J, Tomsich E, Buggs S, Charbonneau A, Kagawa R, Wintemute G.** Socio-emotional consequences of exposure to violence: does firearm involvement exacerbate the impact of a violent event? Presented at the 2019 annual meeting of the American Public Health Association.

**Laqueur H, Smirniotis C, McCort C, Kagawa R, Shev A, Wintemute GJ, Schleimer J.** Machine learning to identify high risk firearm buyers. Presented at the session, Firearm Violence: New Findings from UCFC, the University of California Firearm Violence Research Center, 2019 annual meeting of the American Society of Criminology.

**Laqueur, HS, Wintemute, GJ.** Identifying high-risk firearm owners to prevent mass violence. Presented at the 2019 National Science Foundation Workshop on Mass Violence.

**Pallin R.** Sutter Grand Rounds: Preventing Firearm-Related Harm, *Alta Bates Medical Center, Oakland, CA; Summit Medical Center, Berkeley, CA.* April 2020.

**Pallin R, Nichols T.** What You Need to Know About Guns and Gun Violence, *UC Davis School of Medicine, Sacramento, CA.* April 2020.

**Pallin R.** Kaiser Permanente Firearm Violence Research Roundtable, Healing Justice Alliance Annual Conference, Sacramento, CA, September 2019.

**Pallin R.** Clinical Strategies for Firearm Injury Prevention. SAFE Symposium: Support for Reducing Gun Violence, Stanford University School of Medicine, September 2019.

**Pallin R.** What You Can Do: A comprehensive resource on clinical intervention to reduce firearm-related harm. Awarded 2019 Emergency Care Innovation of the Year Award. Urgent Matters Annual Meeting, Denver, CO, October 2019.

**Pallin R.** Roundtable: What You Can Do for Firearm Injury Prevention. Colorado School of Public Health, Aurora, CO, October 2019.

**Pallin R.** California Public Opinion On Health Professionals Talking With Patients About Firearms. Health Affairs Violence and Health Briefing, Washington DC, October 2019.

**Pallin R.** What You Can Do: Clinical Strategies for Firearm Injury Prevention. Tahoe Forest Health System Winter Illness and Injury Symposium, Incline Village, NV. December 2019.

**Pallin R, Aubel A, Knoepke CE, Pear V, Wintemute G, Kravitz-Wirtz N.** Extreme risk protection order policies: A qualitative look at nationwide and state-specific news media coverage. Accepted for presentation at the 2020 annual meeting of the American Public Health Association.

**Pallin R, Charbonneau A, Wintemute G, Kravitz-Wirtz N.** Public opinion on health professionals talking with patients about firearms. American Public Health Association Annual Conference, Philadelphia, PA. November 2019.

**Pallin R, Schleimer JP, Pear VA, Wintemute GJ.** Gun violence restraining orders in California: the first three years. Society for Epidemiological Research Annual Conference, Minneapolis, MN, June 2019.

**Pallin R, Wintemute G, Kravitz-Wirtz N.** Preventing firearm injury in children: Findings from the California safety and wellbeing survey (CSaWS). Accepted for presentation at the 2020 annual meeting of the American Public Health Association.

**Pallin R, Wintemute G, Kravitz-Wirtz N.** It depends: Perceptions of safety related to firearm ownership and carrying. Accepted for presentation at the 2020 annual meeting of the American Public Health Association.

**Pear VA, Wright MA, Kagawa RMC, Shev A, Wintemute GJ.** Criminal history, firearm purchasing patterns, and demographic features of legal handgun purchasers in California. Presented at the 2019 annual meeting of the Society for Epidemiologic Research.

**Pear V, McCort C, Li Y, Beckett L, Tancredi D, Wintemute GJ.** Armed and prohibited: characteristics of legal firearm purchasers who subsequently become prohibited persons. Presented at the 2019 annual meeting of the Society for the

Advancement of Violence and Injury Research. Also presented at the 2019 annual meeting of the Society for Epidemiologic Research.

**Schleimer J, Kravitz-Wirtz N, Pallin R, Charbonneau A, Buggs S, Wintemute G.** Firearm ownership in California: a latent class analysis. Presented at the 2019 annual meeting of the American Public Health Association and the 2019 annual meeting of the American Society of Criminology.

**Schleimer, JP, Pallin, R, Wintemute, GJ, Charbonneau, A, Kravitz-Wirtz, N.** Patterns of firearm ownership and opinions on firearm policies in California. Presented at the 2020 annual meeting of the American Public Health Association. (planned for upcoming meeting)

**Schleimer, JP, McCort, C, Smirniotis, C, Shev, A, Wright, M, Wintemute, G, Kagawa, R, Laqueur, H.** Firearm purchasing patterns and firearm suicide risk: A case control study of legal handgun purchasers in California. Accepted for presentation at the 2020 annual meeting of the American Public Health Association. (delayed due to COVID-19)

**Schleimer, JP, McCort, C, Shev, A, Pear, VA, Wintemute, GJ, Moulin, AK.** Prescription opioid availability and the evolving epidemiology of suicide in California. Accepted for the 2020 annual meeting of the Society for Epidemiologic Research. (delayed due to COVID-19)

**Shev A, Kagawa R, Wright M, Wintemute G.** Non-violent misdemeanors as a risk factor for future arrest for violent crime among handgun purchasers. Presented at the 2019 annual meeting of the Society for Epidemiologic Research.

**Shev AB, Stewart SL, Crawford A, Wintemute GJ, Keach P, Henry SG.** California's "Prevention for States" initiative associated with decreases in high-risk prescribing metrics. Presented at the Centers for Disease Control and Prevention 2019 annual meeting of the Prevention for States and Data-Driven Prevention Initiative.

**Wintemute GJ, Beckett L, Pear V, Tancredi D, Braga A, Studdert D, Pierce G.** California's Armed and Prohibited Persons System: Effectiveness as an intervention to prevent firearm violence. Presented at the session, Firearm Violence: New Findings from UCFC, the University of California Firearm Violence Research Center, 2019 annual meeting of the American Society of Criminology.

## **MANUSCRIPTS UNDER REVIEW**

**Barnhorst A, Pallin R, Charbonneau A, Asif-Sattar R, Wintemute G.** Giving healthcare providers the tools they need to prevent firearm injury in their patients. Submitted to Annals of Internal Medicine.

**Barnhorst A, Pallin R, Teasdale S, Agnoli A, Spitzer S, Wintemute G.** Counseling patients about firearm injury prevention: survey results from residents at a large academic medical center. Submitted to Journal of Graduate Medical Education.

**APPENDIX 2. CALIFORNIA FIREARM VIOLENCE RESEARCH CENTER**  
**SMALL RESEARCH GRANT PROGRAM AWARD SUMMARY**  
**2019 - 2020**

**2019 EXISTING AFFILIATED CAMPUS AWARDEES**

<b>Campus</b>	<b>Campus/Research Team</b>	<b>Description</b>	<b>Amount</b>
<b>UCLA</b> Fielding School of PH	Co-PIs: Michael Rodriguez, MD Professor and Vice Chair, Department of Family Medicine  Deborah Glik, MD Professor, Department of Community Health Services	<b>The Landscape of Intimate Partner Violence Prevention Policy in Los Angeles</b> This project aims to conduct key informant interviews with professionals to understand the use and implementation of Domestic Violence Restraining Order (DVRO) firearm restrictions in Los Angeles, California. Perspectives from professionals across a range of sectors will provide insight into the challenges associated with DVRO firearm restrictions and ways to strengthen policy implementation. July 1, 2019 – June 30, 2020	\$49,936

**2019 SMALL GRANT RESEARCH AWARDS**

<b>Campus</b>	<b>Campus/Research Team</b>	<b>Description</b>	<b>Amount</b>
<b>UCSD</b>	Taylor Doctor (medical student)	<b>Survey of healthcare providers and Trainees on Firearm Violence Education</b> Our project aims to investigate the current state of firearm violence education for medical professionals. We plan to survey California healthcare professionals to determine the amount and kind of training provided, the satisfaction with current training, interest in receiving additional training, and what barriers are seen to implementing this training.	\$5,625
<b>UC Merced</b>	Sidra Goldman-Mellor, PhD, Assistant Professor, Department of Public Health, UC Merced	<b>Predicting firearm suicide among emergency department patients: A statewide longitudinal study</b> This study will leverage linked emergency department and mortality data from California and recent innovations in machine learning to accomplish two important goals: (1) Quantify prospective firearm suicide rates among ED patients with key diagnostic and sociodemographic patterns, and (2) Generate predictive, interpretable models of individualized firearm suicide risk. Findings will provide benchmark data for healthcare systems implementing firearm suicide prevention plans, and form the basis for a future clinical algorithm usable in ED practice.	\$10,000



<b>CSU Chico</b>	Nicole Sherman, PhD Assistant Professor Department of Political Science	<b>Overcoming the Great Gun Divide: Understanding the Application of Firearm Law and Direction for Future Law</b> The proposed project will analyze how gun owners adhere to gun laws in a rural Californian county. This research will also explore what additional gun regulations gun owners would be willing to have implemented as to represent an acceptable compromise between gun control and gun rights and the possibility of new regulations to reduce gun violence. The purpose of this project is to identify gaps in current law application/enforcement and to consider future gun policy.	\$10,000
<b>UC Davis</b>	Matthew Thompson, MA, PhDc Department of Sociology	<b>Fatal and Non-Fatal Use of Firearms by California Law Enforcement</b> In California 45% of all police use of force incidents included an officer's use of a firearm in 2016-2017. This project investigates agency characteristics and policies as explanations of fatal and non-fatal firearm use by law enforcement agencies. With California's new use of force data, the state is ready to lead the country in understanding police use of firearms. Findings of this project will inform policies and community understanding of this social issue.	\$10,000
<b>2020 PRIMARY AND SECONDARY RESEARCH AWARDS</b>			
<b>Campus</b>	<b>Campus/Research Team</b>	<b>Description</b>	<b>Amount</b>
<b>UCLA</b> Division of Gen Surg 757 Westwood Blvd, Suite 8501 Los Angeles, CA 90095 Phone. (310) 267- 79613	PI: Rochelle Dicker, MD <a href="mailto:RDicker@mednet.ucla.edu">RDicker@mednet.ucla.edu</a>	<b>Title: UNITE: UNderstanding the lInks between social determinants and firearm violence in California communiTiEs</b>  This project aims to form a University of California trauma consortium, and to map fatal and non-fatal firearm injuries in trauma center catchment areas. We will link injuries with social determinants of health based on location of residence and injury location to understand vulnerable populations and root causes of violence.  9/1/2020 – 8/31/2022	\$75,000

<b>UCB</b> Institute of Urban and Regional Development 316 Wurster Hall Berkeley, CA 94720-1850 IURD.berkeley.edu	PI: Jason Corburn, PhD <a href="mailto:jcorburn@berkeley.edu">jcorburn@berkeley.edu</a> +1-510-643-4790 (ph) Professor School of Public Health & Department of City & Regional Planning Director, Institute of Urban & Regional Development	<b>Title: Advancing Peace: Credible Messengers &amp; Community Gun Violence Reduction</b> This proposal aims to understand how street outreach workers in Richmond, Sacramento and Stockton, California act as credible messengers to interrupt gun violence, mentor young people at the center of gun violence and sustain themselves while working for a community-based, firearm homicide reduction program called Advance Peace.  24 months	\$75,000
<b>UCLA</b> Jonathan and Karin Fielding School of Public Health 650 Charles E Young Drive S Los Angeles, CA 90095	PI: Jennifer Wagman, PhD, MHS <a href="mailto:jennwagman@ucla.edu">jennwagman@ucla.edu</a>	<b>Title: Pilot testing the Lethality Assessment Program to reduce gun related intimate partner homicides in Los Angeles</b> Gun-related intimate partner homicides (IPH) are on the rise, nationally and in Los Angeles. This project aims to adapt and pilot the Lethality Assessment Program in four Los Angeles Police Department divisions and use findings to develop a full-scale study to evaluate LAP's impact on reducing IPH in Los Angeles.  24 months	\$73,425
<b>UCSD</b>	PI: Anita Raj, PhD Center on Gender Equity and Health Department of Medicine University of California, San Diego CRSF Building, 9500 Gilman Drive La Jolla, CA 92093-0507 Phone: (858) 822-0229 <a href="mailto:anitaraj@ucsd.edu">anitaraj@ucsd.edu</a>	<b>Title: Exposure to Family Violence in Adolescence on Firearm Carrying in Young Adulthood: Sex-Stratified Multilevel Analyses Using Longitudinal Data from the Los Angeles Family and Neighborhood Survey (LAFANS)</b>  To expand the understanding of the etiology of firearm-related intimate partner violence, we propose secondary data analysis on a large sample of Los Angeles parent-child dyads and neighborhoods to examine the link between family violence and neighborhood context in adolescence on gun carrying in young adulthood.  6 months	\$9,999
<b>UCLA</b>	PI: Gary N. Holland, MD <a href="mailto:holland@jsei.ucla.edu">holland@jsei.ucla.edu</a>	<b>Title: Development, Implementation, and Evaluation of a Firearm-Safety Counseling Module for Medical Students</b>  Our project seeks to develop, implement, and evaluate an evidence-informed educational module designed to teach medical students how to counsel patients in the clinical setting about firearm-safety.  6 months	\$10,000



UCSD	PI: Christopher Kahn, MD, MPH, FAEMS <a href="mailto:ckahn@health.ucsd.edu">ckahn@health.ucsd.edu</a>	<b>Title: EMS Data Modeling to Identify Patients at High Risk for Firearm-Facilitated Suicide</b>  Investigators will analyze nearly one million EMS patient encounters to determine if risk factors can be identified that are associated with later EMS encounters involving firearm-facilitated suicide. If identified, these pilot data will be used to support additional studies focused on creating a model for proactively identifying these high-risk persons.  12 months	\$9,976
<b>UC Davis</b> Department of Surgery	Alana Beres, MD, MPH <a href="mailto:aberes@ucdavis.edu">aberes@ucdavis.edu</a>	<b>Title: Gun Safety: Starting the conversation after trauma</b>  Safe gun storage is associated with decreased firearm injuries. At our institution families of children presenting after firearm injuries received gun safety counseling in less than 5% of cases. We aim to increase gun safety discussions for patients presenting after gunshot injuries by providing an educational program to trauma care providers.  approximately 15 months	\$4,240