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.

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
Ms. Erika Contreras, Secretary of the Senate
Ms. Amy Leach, Office of the Chief Clerk of the Assembly
Ms. Sue Parker, Office of the Chief Clerk of the Assembly
Ms. Tammy Weis, Office of the Chief Clerk of the Assembly
Mr. Chris Ferguson, Department of Finance
Mr. Jack Zwald, Department of Finance
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  
gjwintemute@ucdavis.edu

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


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.

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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**


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


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.


MANUSCRIPTS IN PRESS


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


MANUSCRIPTS UNDER REVIEW


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.


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, 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


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]


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. 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: 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.


OTHER NOTABLE RESEARCH CONTRIBUTIONS


COMMENTARIES AND EDITORIALS


MEDIA SPOTLIGHTS


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 | KCRA

“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


EDITORIALS AND COMMENTARIES


PRESENTATIONS


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]


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


JOURNAL ARTICLES


EDITORIALS AND COMMENTARIES


PRESENTATIONS


As of May 2020

JOURNAL ARTICLES


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). “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.


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.)


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.


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.


Pear V, McCort C, Li Y, Beckett L, Tancred 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.


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, 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

<table>
<thead>
<tr>
<th>Campus</th>
<th>Campus/Research Team</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCLA Fielding School of PH</td>
<td>Co-PIs: Michael Rodriguez, MD Professor and Vice Chair, Department of Family Medicine, Deborah Glik, MD Professor, Department of Community Health Services</td>
<td>The Landscape of Intimate Partner Violence Prevention Policy in Los Angeles: 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</td>
<td>$49,936</td>
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## 2019 Small Grant Research Awards

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<tr>
<th>Campus</th>
<th>Campus/Research Team</th>
<th>Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>UCSD</td>
<td>Taylor Doctor (medical student)</td>
<td>Survey of healthcare providers and Trainees on Firearm Violence Education: 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.</td>
<td>$5,625</td>
</tr>
<tr>
<td>UC Merced</td>
<td>Sidra Goldman-Mellor, PhD, Assistant Professor, Department of Public Health, UC Merced</td>
<td>Predicting firearm suicide among emergency department patients: A statewide longitudinal study: 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.</td>
<td>$10,000</td>
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<td>Campus</td>
<td>Campus/Research Team</td>
<td>Description</td>
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<tr>
<td>CSU Chico</td>
<td>Nicole Sherman, PhD Assistant Professor</td>
<td>Overcoming the Great Gun Divide: Understanding the Application of Firearm Law and Direction for Future Law</td>
<td>$10,000</td>
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<tr>
<td></td>
<td>Department of Political Science</td>
<td>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.</td>
<td></td>
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<tr>
<td>UC Davis</td>
<td>Matthew Thompson, MA, PhDc</td>
<td>Fatal and Non-Fatal Use of Firearms by California Law Enforcement</td>
<td>$10,000</td>
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<tr>
<td></td>
<td>Department of Sociology</td>
<td>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.</td>
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### 2020 PRIMARY AND SECONDARY RESEARCH AWARDS

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<tr>
<th>Campus</th>
<th>Campus/Research Team</th>
<th>Description</th>
<th>Amount</th>
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</table>
| UCLA         | PI: Rochelle Dicker, MD RDicker@mednet.ucla.edu | Title: UNITE: UNderstanding the links between social determinants and firearm violence in California communiTIEs
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 |
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<tr>
<th>University</th>
<th>PI</th>
<th>Title</th>
<th>Description</th>
<th>Duration</th>
<th>Amount</th>
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<tbody>
<tr>
<td>UCB</td>
<td>Jason Corburn, PhD</td>
<td><strong>Title:</strong> Advancing Peace: Credible Messengers &amp; Community Gun Violence Reduction&lt;br&gt;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.</td>
<td>24 months</td>
<td>$75,000</td>
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<tr>
<td>UCLA</td>
<td>Jennifer Wagman, PhD, MHS</td>
<td><strong>Title:</strong> Pilot testing the Lethality Assessment Program to reduce gun related intimate partner homicides in Los Angeles&lt;br&gt;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.</td>
<td>24 months</td>
<td>$73,425</td>
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<tr>
<td>UCSD</td>
<td>Anita Raj, PhD</td>
<td><strong>Title:</strong> 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)&lt;br&gt;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.</td>
<td>6 months</td>
<td>$9,999</td>
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<tr>
<td>UCLA</td>
<td>Gary N. Holland, MD</td>
<td><strong>Title:</strong> Development, Implementation, and Evaluation of a Firearm-Safety Counseling Module for Medical Students&lt;br&gt;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.</td>
<td>6 months</td>
<td>$10,000</td>
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<tr>
<td>Institution</td>
<td>PI/Department</td>
<td>Title</td>
<td>Funding</td>
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<tr>
<td>UCSD</td>
<td>Christopher Kahn, MD, MPH, FAEMS</td>
<td>EMS Data Modeling to Identify Patients at High Risk for Firearm-Facilitated Suicide</td>
<td>$9,976</td>
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<td></td>
<td><a href="mailto:ckhahn@health.ucsd.edu">ckhahn@health.ucsd.edu</a></td>
<td>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.</td>
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<td>12 months</td>
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<tr>
<td>UC Davis</td>
<td>Alana Beres, MD, MPH</td>
<td>Gun Safety: Starting the conversation after trauma</td>
<td>$4,240</td>
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<td>Department of</td>
<td><a href="mailto:aberes@ucdavis.edu">aberes@ucdavis.edu</a></td>
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<td>Surgery</td>
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<td>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.</td>
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<td>approximately 15 months</td>
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