

Office of Research

UC Davis

Center for Healthcare Policy and Research

Annual Report

Fiscal Year 2021-22



UC DAVIS

Center for Healthcare
Policy and Research

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Profile & General Information

Name: Center for Healthcare Policy and Research

Year Established: 1994

Social Media: Website: <https://health.ucdavis.edu/chpr/>
Facebook: <https://www.facebook.com/ucdchpr/>
Instagram: https://www.instagram.com/ucd_chpr/
LinkedIn: <https://www.linkedin.com/company/uc-davis-center-for-healthcare-policy-research>
Twitter: https://twitter.com/UCD_CHPR

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Space: CHPR staff worked mostly remotely during FY 21/22 and continued to be very productive. CHPR's lease with the Grange building ended June 30, 2021. During the Summer and Fall, CHPR staff, including former Institute for Population Health Improvement (IPHI) staff at The Cannery building, relocated to the new university-owned space at 4900 Broadway, Sacramento, CA. As part of the complex move that took place during multiple stages, all logistical matters were successfully executed. This included ensuring workstations were properly set up, ensuring the telecom and computing needs of staff were met, and coordinating with Reprographics to deliver and set up new copier/scanner devices in two suites. While the assigned space in the Broadway building is a much smaller footprint than CHPR occupied in the Grange building, CHPR has been able to effectively utilize the space due to staff having the ability to telework.

**Significant
Equipment/Instrumentation:**

CHPR continues to use high-performance computers to support statistical analysis of large datasets (e.g., Department of Health Care Access and Information Healthcare Cost and Utilization Project databases, Medicare Provider Utilization and Payment Data, etc.). CHPR utilized six virtual servers from UCD Health IT this fiscal year to aid with analyzing large datasets while not tying up CHPR's existing computing resources. With dataset sizes continuing to expand, CHPR's computing capacity needs have also expanded. CHPR continues to partner with UCD Health to identify the best solutions to this challenge (e.g., utilizing the new Advanced Computing Environment [ACE]/HC2 and purchasing servers to be housed at the Data Center).

Mission Statement

The mission of the Center for Healthcare Policy and Research is to facilitate research, promote education, and inform policy about health and healthcare.

The goal of CHPR is to improve the health of the public by contributing new knowledge about healthcare access, quality, costs, and outcomes.

The objectives of CHPR are to develop, support, and conduct mission-related interdisciplinary and collaborative research projects; to support the education and career development of scholars interested in health services and health policy research; and to assist healthcare policy formulation and improve health services delivery through the synthesis, interpretation and dissemination of research findings.

We strive to achieve our goal and objectives through interdisciplinary, collaborative research, teaching and mentoring, research synthesis, and policy analysis.

To complement CHPR's mission statement and as a result of foundational planning with Raj Kapur, CHPR staff and faculty created the following "Why" statement: "To enhance the health and wellbeing of all individuals and communities by enabling research, developing researchers, and informing policy and practice."

Research Highlights

Research highlights of CHPR faculty, fellows and staff

During fiscal year 2021-2022, CHPR received funded awards, including grants to support work in substance use research, improve measures of healthcare quality, and inform health-related policy through both new research and rapid and systematic literature reviews. This includes a new 5-year grant funded by CDPH for The Healthy Living Clinic Initiative (HLCI) project.

Federal and federal-flowthrough funding was received, including from American Institutes for Research in the Behavioral Sciences (aka "AIR"; formerly known as IMPAQ International) for the "Patient Safety Measures" project, AHRQ for a project titled "Patient Safety Network" (aka "PSNET"), Mathematica for the "Hospital-Level Quality Indicators (QI's) Analysis and Support" project, AHRQ for the "Watchful Waiting" project, and HRSA for the "Prenatal Counseling for Postpartum Health—A Randomized Trial" project (aka "Healthy Moms" study).

CHPR received formal approval this year from UC Davis and the UC system of renewal of CHPR's status as an Organized Research Unit (ORU) for another 5 years, ensuring that the Center can build upon its successes achieved over the previous 28 years.

In FY 2021-2022, there were 11 CHPR-affiliated academic personnel with active grant funding administered through CHPR. The following sections briefly describe highlights achieved by CHPR-affiliated researchers in each of **CHPR's three primary research programs** during FY 2021-2022.

During FY 2021-2022, CHPR submitted 25 proposals for faculty affiliates. CHPR also submitted proposals for two pilot awards issued by the Behavioral Health Center of Excellence (BHCOE), one of which was funded.

Evidence to Inform Clinical Care and Health Policy

The goal of CHPR's work in evidence synthesis and policy analysis is to support the alignment of clinical practice, health policy, and healthcare reimbursement with science-based evidence and assessed value. To that end CHPR faculty conduct research and analyses designed to have relevance to clinical practice, specific healthcare policies, and healthcare costs. CHPR teams also conduct rapid evidence reviews as part of the California Health Benefits Review Program (CHBRP), which provides analyses to the California Legislature on the medical effectiveness, cost, utilization, and public health impacts of introduced health insurance legislation within a 60-day turn-around time to meet the Legislature's policy committee calendar; contributions to this program by CHPR have grown steadily.

Highlights from this CHPR research program during the 2021-2022 fiscal year appear below.

- As part of the California Health Benefits Review Program (CHBRP), a UC-wide collaboration, CHPR faculty and staff provided evidence-based analyses of nine bills for the California State Legislature during FY 2021-2022 (Bill author): AB 1859 Mental Health Services (Levine); AB 1930 Medi-Cal: Comprehensive Perinatal Services (Arambula); AB 2024 Breast Imaging (Friedman); AB 2029 Health Care Coverage: Treatment for Infertility (Wicks); AB 2516 Health Care Coverage: Human Papillomavirus (Aguiar-Curry); SB 974 Breast Imaging (Portantino); SB 1337 Coordinated

Specialty Care for First-Episode Psychosis (McGuire); SB 1338 Community Assistance, Recovery, and Empowerment (CARE) Court Program (Umberg and Eggman); and SB 1473 COVID-19 Therapeutics (Pan).

- CHPR staff, led by Dominique Ritley, CHPR senior health policy analyst, provided support for the multiday Pandemic Preparedness Workshop co-hosted by Healthy Davis Together and the Office of Grand Challenges in April 2022. Building on the powerful role universities like UC Davis played in the U.S. response to the COVID-19 pandemic, the workshop sessions illustrated the benefits of incorporating universities into disaster preparedness planning. Workshop results are serving as a foundation for further development of university-specific preparedness and response plans by the newly established Institute for Pandemic Intelligence. CHPR plans to continue supporting the Institute's efforts to influence and inform policies relating to preventing and managing future pandemics.
- Results of a study conducted by CHPR affiliates Shani Buggs and Patricia Powers were published as a brief titled "Key Findings from Public Deliberation with Community Members about Police Reforms." The brief includes results of participant discussions of and preferences among four presented policy options for police reforms.
- CHPR's Associate Director, Dr. Jeffrey Hoch, and several other CHPR faculty affiliates have been involved in mentoring Sonia Singh as she completed her doctoral research. One paper from that research, "Cost-Effectiveness of Patient Observation on Cranial CT Use with Minor Head Trauma," was published in *Archives of Diseases in Childhood* this fiscal year. Singh and her coauthors assembled an analytic cohort of 18,471 children presenting to the Emergency Department (ED) with blunt head trauma and stratified them by the Pediatric Emergency Care Applied Research network (PECARN) traumatic brain injury (TBI) risk categories. Their results indicated that planned ED observation in selected children with minor head trauma was cost-effective for reducing CT use for the PECARN intermediate-risk and high-risk categories.
- UC Davis Health announced in October of 2021 that it is partnering with AKT Development Corporation (AKT) to develop a future "Community for Health and Independence" near its planned Folsom Ranch medical campus. CHPR's white paper (published June 2021), which explored how the two partners might leverage their respective experience and expertise to create a planned community focused on healthy aging in place for all its residents, including vulnerable and developmentally disabled adults, informed this public-private partnership. The CHPR report includes a description of regional demographics, existing resources for older and vulnerable adults, examples of model communities, and an overview of research on the use of technology, the built environment, and community-based interventions to facilitate aging in place. It also describes opportunities and challenges associated with UC Davis maintaining a relationship with the future "Community for Health and Independence" that include conducting community-based research and education to eliminate current gaps in knowledge about the interplay between social, physical, and environmental factors that influence healthy aging.

Healthcare Quality and Safety Research

Healthcare quality and safety research is critical to improving effective and efficient delivery of healthcare services in the United States. Patrick Romano, MD, MPH, a nationally renowned healthcare quality expert, has led the CHPR effort in quality and safety research for more than 15 years.

Highlights over this reporting period for this CHPR research program follow.

- A website launched in early 2022, Cal Long Term Care Compare (CLTCC), gives California consumers useful information to use in comparing the quality of various nursing homes. CLTCC centralizes publicly available information from federal and state agencies about nursing homes in California, offering metrics covering staffing, quality of facilities, fines and other quality-related information. Data analysis for CLTCC is led by CHPR affiliates and staff. The project's Co-PIs are Deb Bakerjian, a CHPR faculty affiliate and clinical professor at the Betty Irene Moore School of Nursing at UC Davis Health, and Patrick Romano, professor of internal medicine and pediatrics at UC Davis Health who also serves on CHPR's leadership team. The website's data and ratings will be updated on a bi-annual basis. While consumers are the target audience, CLTCC also will be useful to other stakeholders including nursing home providers, hospitals referring patients, policymakers, regulators, health plans and nonprofit organizations.
- Drs. Patrick Romano and Deb Bakerjian continued to serve as Co-editors in Chief for PSNet (Patient Safety Network), the web-based resource for evidence on improving patient safety supported by the Agency for Healthcare Research and Quality (AHRQ). In addition to curating a weekly newsletter featuring 20-25 recently published studies, tools, news articles and upcoming events, they and their UC Davis/CHPR editorial team published 21 expert commentaries on cases describing medical errors and patient harms from hospitals across the U.S. (WebM&Ms) in fiscal year 2021-2022, seven of which also provide continuing education (CE) credit for health professionals; they also published seven Patient Safety Primers, including "Strategies and Approaches for Investigating Patient Safety Events," "Debriefing for Clinical Learning," and "Deprescribing as a Patient Safety Strategy," as well as highlighting fourteen Emerging Innovations, representing unique approaches to patient safety improvement recently published in the peer-reviewed literature.
- CHPR-affiliated researchers conducted a study in which new parents with newborns in the Neonatal Intensive Care Unit (NICU) used videoconferencing technology to watch their babies while pumping or expressing milk. The study found parents who used FamilyLink, a videoconferencing technology, to watch their babies in the NICU reported an improved experience relative to parents who did not use the technology when they pumped breast milk. FamilyLink is available to parents at all times through a secure connection on their computer or mobile device. CHPR-affiliated researchers Drs. Laura Kair, James Marcin and Jennifer Rosenthal coauthored the study, published in *Breastfeeding Medicine*, with UC Davis Health colleagues Drs. Ilesha Miller, Kara Kuhn-Riordon, Caroline Chantry, and Kristin Hoffman. Dr. Adrienne Hoyt-Austin, assistant professor of clinical pediatrics at UC Davis Health and a former post-doctoral scholar with the CHPR Quality, Safety, and Comparative Effectiveness Research Training in Primary Care (QSCERT-PC) Program, was the study's lead author.

Mental Health and Substance Use Research

Substance use disorders (SUD) and mental health issues take an enormous toll on our society through premature death, poor health outcomes, increased disparities, and unnecessary costs. CHPR researchers have made a substantial impact in these fields through their work on mental health, tobacco cessation, prescription opioid overuse, and the impacts of prescription opioid tapering on patient health outcomes. Highlights during this reporting period for this research program are given below.

Opioid Use/Addiction: For nearly a decade, more than a dozen CHPR faculty and fellows have been producing impactful research related to treating opioid addiction. Examples of the research conducted through CHPR on this important topic during FY 2021-2022 are given below.

- CHPR affiliate Dr. Alicia Agnoli, assistant professor of family and community medicine at UC Davis School of Medicine, was honored with a 2022 Top Ten Clinical Research Achievement Award by the Clinical Research Forum. This award is in recognition of her work studying opioid dose tapering which resulted in a paper titled "Association of Dose Tapering with Overdose or Mental Health Crisis Among Patients Prescribed Long-Term Opioids," published in *JAMA* this year, on which she is first author. Her coauthors on this important paper are Dr. Joshua Fenton, CHPR affiliate and professor and Vice Chair of Research in the Department of Family and Community Medicine, CHPR interim director Dr. Anthony Jerant, CHPR affiliates Drs. Daniel Tancredi and Elizabeth Magnan, and CHPR statistician Dr. Guibo Xing.
- Drs. Fenton and Agnoli and CHPR coauthors published another study examining potential long-term risks of opioid dose tapering this year. In that study they found that patients on stable but higher-dose opioid therapy who had their doses tapered by at least 15% had significantly higher rates of overdose and mental health crisis in the second year after tapering compared to their pre-tapering period. The study, "Long-term Risk of Overdose or Mental Health Crisis After Opioid Dose Tapering," was published in *JAMA Open Network*. CHPR researchers Elizabeth Magnan, Iraklis Erik Tseregounis, Guibo Xing, and Dan Tancredi were coauthors on this study.
- The CA Bridge program, a project of the Public Health Institute and co-founded by CHPR affiliate and professor of emergency medicine at UC Davis Health, Dr. Aimee Moulin, received an award from the California Department of Health Care Services this year to expand access to substance use and mental health services throughout the state by funding the placement of health navigators in California emergency departments. The new program, called CalBridge Behavioral Health Navigator Program (the Bridge Navigator Program) is another response to the fact that drug overdose deaths doubled from 2017-2021 in California and the Centers for Disease Control and Prevention (CDC) reported a record 107,000 overdose deaths across the U.S. in 2021.
- CHPR affiliate Dr. Stephen Henry collaborated with doctoral candidate Peter Torres from the UC Davis Department of Linguistics on a study designed to examine the language of pain, help doctors communicate better with their patients about it, and understand how doctors interpret opioid-related policies. CHPR facilitated the collaboration, which used video-recorded patient-doctor interactions collected by CHPR staff and audio records gathered with CHPR assistance.

Torres was honored with the Elizabeth Dayton Award from the Linguistic Society of America on January 8, 2022, in recognition of this research.

Tobacco Cessation: Elisa Tong, MD, MS, leads tobacco cessation research associated with CHPR. Her work, carried out with a 6-person team of CHPR staff, has led to changes in Medi-Cal tobacco policy and University of California and California Community College campus smoking policies that affect hundreds of thousands of students, staff, and faculty throughout the state. Changes to these policies influence young adult behavior and have significant, positive, life-long health (and cost) effects.

- Dr. Tong and the team are currently conducting two large tobacco cessation research projects at CHPR. The projects complement each other in their focus on multi-sector initiatives that implement and scale the integration of evidence-based treatments for tobacco dependence into safety-net clinics and hospitals to encourage tobacco cessation and mitigate health disparities.
- Research led by Dr. Tong, who is a professor of internal medicine, and published this fiscal year in the *Journal of General Internal Medicine* shows that some people may be overlooked for tobacco cessation counseling, putting them at risk for lung cancer. The study attributes the finding to the way healthcare providers are asking some people about their current tobacco use. The study, "Assessment and Counseling Gaps Among Former Smokers Eligible for Lung Cancer Screening in US Adults," found that if people are asked during lung cancer screenings "Do you now smoke cigarettes?" and they answer, "not at all," they might be classified as former smokers when, in actuality, they used tobacco recently.
- Dr. Tong also published a study examining the effectiveness of Tobacco Tracker, a tool to crowdsource reporting of tobacco use and related litter to shape behaviors linked to smoke- and tobacco-free policies and create healthier college campuses, in *Nicotine & Tobacco Research*. The study, "Tobacco Tracker: A New Tool to Support College Smoke and Tobacco Free Policies," surveyed students, faculty, and staff at two California public universities with 100% smoke- and tobacco-free policies, finding that awareness and use of Tobacco Tracker could mobilize campus communities to help reduce tobacco use.
- CHPR received a 5-year grant from the California Department of Public Health to provide intensive training and technical assistance on smoking cessation to some 40 community clinics serving at-risk populations. This smoking cessation program, named the Healthy Living Clinic Initiative (HLCI), is led by CHPR Associate Director Dr. Jeffrey Hoch, professor and Chief of the Division of Health Policy and Management in the UC Davis Department of Public Health Sciences; Dr. Desiree Backman, Chief of the Prevention Policy and Practice Group (3PG) at CHPR; and Dr. Neal Kohatsu, Chief Health Strategist of 3PG. The HLCI team will use a "whole health" approach to support patients who smoke in their efforts to quit by providing them with guidance on diet, physical activity, and stress management.
- CHPR and the UC Davis Comprehensive Cancer Center co-hosted Dr. Michael Fiore, the nation's leading expert on smoking cessation and evidence-based guidelines as part of CHPR's Seminar Series. Dr. Fiore leads the NCI-sponsored Cancer Center Cessation Initiative Coordinating Center at the University of Wisconsin where he is also the director of the Center for

Tobacco Research and Intervention. The seminar, “Unfinished Business: The Achievable Goal of Eliminating All Tobacco Product Use in the United States by 2030,” was attended by more than 100 individuals in-person and via Zoom.

- CHPR affiliates Alicia Agnoli, assistant professor of family and community medicine, and Laura Kair, associate professor of clinical pediatrics, and their colleagues, conducted a study which found that the odds of starting and continuing breastfeeding is significantly lower among individuals who used a combination of tobacco and illicit substances during pregnancy. Adverse health outcomes for pregnant individuals and their children have been associated with prenatal tobacco and substance use as well as with suboptimal breastfeeding. Drs. Agnoli and Kair coauthored the study which was published in *Breastfeeding Medicine* this year and also coauthored by UC Davis’ Kathleen Groh and additional colleagues Nichole Nidey, Christine Wilder, Tanya E. Froehlich and Stephanie Weber from University of Cincinnati.

Conclusion

CHPR continues to play a unique role in supporting and fostering interdisciplinary collaboration, among researchers and stakeholders within the University, and in other academic institutions, the community, and other private and public entities, toward solving some of our society’s most significant healthcare- and health policy-related problems. CHPR provides an important nexus for investigators with a broad range of expertise to collaborate on impactful research that informs healthcare delivery, quality, outcomes and costs.

Education Highlights

- In FY 2021-2022, CHPR participated in the training of multiple postdoctoral fellows as part of a federally funded T32 research training program: QSCERT-PC (Quality, Safety, and Comparative Effectiveness Research Training in Primary Care). (See **Appendix 5 Table 1** for a list of all CHPR-affiliated postdoctoral fellows.) Susan Brown, PhD, and CHPR Associate Director Jeffrey Hoch both served as QSCERT-PC Program Directors. Fellows completing these programs have gone on to fill academic research positions or health policy leadership roles at UC Davis or at other research and policy institutions in the US.
- A range of topics in health services and outcomes research, as well as health policy topics, were presented during the CHPR Seminar Series (listed in the UC Davis General Catalog as EPI 291 and GMD 291, Seminars in Human Health Services Research & Clinical Epidemiology). The CHPR seminar series was converted to fully online in 2020 due to COVID-19 requirements, and in the process it has attracted a larger audience, including more people on the Davis campus. CHPR collaborated with the Comprehensive Cancer Center and the Clinical and Translational Science Center to co-host multiple seminars in Spring 2022. A list of seminar speakers and topics presented during FY 2021-2022 can be found in **Appendix 5, Table 2**, and on the CHPR website.
- CHPR co-hosted a joint research forum with the UC Davis Perinatal Origins of Disparities (POD) Center on May 25, 2022. The forum featured brief presentations and discussions among CHPR and POD researchers on a variety of topics of mutual interest.
- CHPR co-hosted a joint research forum with the UC Davis Center for Poverty and Inequality Research (CPIR) on October 29, 2021. This joint forum highlighted the work of faculty with overlapping research interests with the goal of sparking new collaborations, and was well attended.
- CHPR faculty continue to offer the popular, interdisciplinary course: Principles and Methods of Comparative Effectiveness Research (CLH: 210Y) coordinated by Dr. Jeffrey Hoch, the Instructor of Record (IOR) for this course. This traditionally hybrid course converted to fully online in the Spring quarter of 2020. The course introduces students to basic methods used in comparative effectiveness research and engages students in team science for final projects. In prior years, a number of students have gone on to publish their final projects after completing the course.
- CHPR faculty continue to mentor undergraduate students, graduate students, medical students, postdoctoral fellows and junior faculty in research on healthcare outcomes, quality, access and costs to inform best healthcare practices and health policy. For example, multiple CHPR affiliates, including Jeffrey Hoch, James Holmes, Nathan Kuppermann and Daniel Nishijima, mentored Sonia Singh as she completed her doctoral research and published “Cost-Effectiveness of Patient Observation on Cranial CT Use with Minor Head Trauma.” See the “Personnel” section of this report for lists of students and fellows mentored by CHPR-affiliated faculty.
- CHPR staff members Melissa Gosdin, PhD in sociology, and Bethney Bonilla, MS, continued to lead recurring meetings for CHPR affiliates and staff on anti-racism matters; they present materials on

various issues related to diversity, equity and inclusion and the group discusses them and ways to use what has been learned to inform CHPR hiring and other practices.

- Dr. Melissa Gosdin provided mentoring to graduate students (e.g., Ren Bruguera, UCD medical student and Rukhshanda Rehman, Department of Human Ecology), undergraduate students (e.g., Youth Community Scientist Academy mentor for Health Equity and Outreach [HERO] program with the CTSC), and junior faculty (e.g., Dr. Simon Ascher, Hospitalist Medicine and Dr. Sonia Singh, Emergency Medicine). She also contributed substantially to teaching several School of Medicine courses, including co-instructing with Dr. Karlin's In the course "The Qualitative Experience: I-RESTORE" and guest lecturing for Dr. Romano's "Qualitative Research Methods" course and Dr. Shaikh's "Enhancing Quality Improvement and Patient Safety" course.
- After consulting with staff from the UC Davis Diversity, Equity, and Inclusion office (DEI), CHPR established a schedule of unit-wide training sessions led by DEI staff and held on a bi-monthly basis. The first session, "Understanding Diversity and Social Justice," hosted by Eric Sanchez, Associate Director of the DEI Education Program, was held in June 2022.

Future Vision

Led by Interim Director Anthony Jerant, the first six months of FY 2022-23 continued to be a period of transition for CHPR while a competitive search was conducted to select a new permanent Director to lead the Center. A new and permanent Director is expected to be appointed in early 2023. The Center will continue to adapt to the ongoing COVID-19 pandemic. CHPR will be working in a hybrid-remote environment this year, while maintaining its high level of productivity and service, for its members, the University, and for the improvement of healthcare generally.

Key goals and initiatives for CHPR over the next year include:

- **Foundational planning:** Once a new and permanent Director is in place, CHPR will follow up on the various Center-related issues discussed during the foundation planning sessions held in FY 2021-2022. A retreat with CHPR leadership is envisioned as a means toward initiating this process. CHPR's leadership team worked with Kapur International, a well-regarded external consulting firm, to carry out this foundational work. A successful approach popularized by Simon Sinek is being employed in this work; through this approach, CHPR's purpose ("why" statement) was defined during FY 2021-2022 and CHPR's "how" and "what" statements will be created after a new Director is appointed in 2023.
- **Continue to promote financial sustainability:** CHPR is heavily dependent on extramural funding; therefore, despite consecutive years of financial growth, the Center continues to explore ways to diversify its funding sources.
 - As indirect cost recovery can factor into whether a grant or contract proposal is submitted through a PI's academic home department versus through CHPR, CHPR and its new Director will consider whether sharing of indirect cost recovery is an appropriate option for encouraging more PIs to use the Center's grant- and research-related services.
 - CHPR will explore ways to utilize available funds from indirect costs to support and expand key initiatives of and services offered by the Center.
 - CHPR will continue working with Development and Alumni Relations officers, on both the Davis and Health Sciences campuses, to pursue philanthropic avenues to promote the Center's financial sustainability. For example, CHPR will continue to participate in UC Davis Give Day and will utilize the services of personnel in UC Davis Foundation Engagement and Alumni Relations to identify opportunities to fund Team Science projects such as those being proposed by Drs. Stephen Henry and Aimee Moulin to help curb the current US opioid crisis.
 - CHPR will continue to submit grant and contract proposals that focus on health-related research and policy, with special emphasis on those that promote health equity among diverse populations.

- **Increase visibility of CHPR as an Accelerator of Healthcare-related Innovation = Research:**
 - CHPR is working closely with Page Design, while also utilizing the latest TeamSite tools and updates, to explore efficient ways to redesign and improve the user-friendliness of CHPR's website. CHPR's new website went live at the end of December 2022 and will go through frequent updates throughout FY 2022-2023 to maximize its effectiveness.
 - Additionally, CHPR will expand upon a marketing plan initially implemented in Spring 2020, the goals of which are to improve engagement on its social media platforms (Facebook, Twitter, Instagram, and LinkedIn) and with the Center's website.
 - The Center will also put more emphasis and resources on disseminating CHPR research results and call more attention to the highly skilled and efficient teams of researchers—including faculty and staff—affiliated with CHPR.

- **Establish additional collaborations with faculty on the Davis campus:** CHPR will continue to engage with faculty at the main Davis campus (e.g., Departments of Public Health Sciences, Sociology, Communication, Psychology, and Human Ecology), in addition to faculty in many departments in Sacramento at the School of Medicine.
 - CHPR will support the submission of an AHRQ T32 training grant through CHPR in the Fall of FY 2022-2023 with Co-Principal Investigators from the Davis campus (Dr. Leigh Anne Simmons, Human Ecology) and the Sacramento campus School of Medicine (Dr. Jim Marcin, Pediatrics).
 - CHPR plans to explore jointly hosting another research forum with the UC Davis Center for Poverty and Inequality Research (CPIR) or other research units located at the Davis campus. Such a joint forum with CPIR took place on October 29, 2021; it highlighted the work of faculty with overlapping research interests with the goal of sparking new collaborations, and was well attended.
 - CHPR will also consider engaging in additional collaborations with other departments or centers in issuing pilot grant awards.

- **IAB and EAB meetings:** CHPR will hold meetings of its Internal Advisory Board (IAB) and External Advisory Board (EAB) soon after a new Director is appointed and is ready to lead these activities.

SWOT Analysis

Strengths

- Strongly recommended for renewal after thorough 15-year evaluation by external reviewers
- Strong grants administration team (e.g., Research Administrator, Writer/Editor, and CAO)
- Recent recruitment of an experienced Digital Communications Specialist
- Increased focus on public engagement and community-engaged research via integration of the Institute for Population Health Improvement into CHPR in 2021
- Capacity to support preparation and submission of large, multidisciplinary grant applications and attract research funding from diverse sources
- User-friendly online forms (replacing fillable PDF forms) for Requests for Center Assistance and New Affiliate Applications
- Faculty affiliates with state-of-the-art expertise in research methods used in a variety of disciplines
- Capacity as a shared research services model to support administrative functions for smaller centers
- National recognition for expertise in conducting systematic evidence reviews, policy analyses, and health economic analyses
- Key team responsible for assessing medical effectiveness and public health impacts of proposed health insurance legislation for the California Health Benefits Review Program (CHBRP)
- Collaborations with the Center for Advancing Pain Relief, Behavioral Health Center of Excellence, the Clinical Translational Science Center, the Center for Health Technology, the Betty Irene School of Nursing, the Comprehensive Cancer Center, Office of Grand Challenges, and Perinatal Origins of Disparities Center
- Experienced, skilled and committed research staff, from research assistants to PhD researchers, with expertise in an array of research methods including statistical analysis, health economics, health policy analysis, systematic reviews, comparative effectiveness methods, qualitative methods, survey research, and simulated patient studies
- Well-regarded research seminar series with a growing online audience

Weaknesses

- Potential clients, internal and external to UC Davis, lack adequate visibility and awareness of CHPR and its services
- Analyses of large datasets is slow and challenging with existing computing capacity

Opportunities

- Recruitment of a new and permanent Director with a national reputation
- Enhancement of CHPR visibility and infrastructure through attainment of a footprint in Aggie Square in 2023 (e.g., health policy core).
Increasing the number of faculty located on the Davis campus and at UC Davis Health, and other stakeholders and policymakers outside of the University, that utilize CHPR for research collaborations and as a resource
- Expanding and diversifying CHPR funding sources
- Expanding computing capacity to enhance CHPR faculty affiliates' ability to compete for research support involving analysis of large health datasets
- Expanding capacity to provide policy analysis and other analytic services to UC Davis Health personnel
- Enhancement of communication/marketing to increase CHPR visibility
- Increasing funding from external donors for Center-specific initiatives and education
- Establishment of additional cross-departmental, multidisciplinary collaborations for training researchers
- Provision of support for faculty who are pursuing large (P-type NIH) grants that include research infrastructure (e.g., "cores"), as CHPR is doing for Drs. Stephen Henry and Aimee Moulin who received "Cultivating Team Science" funding from the UC Davis School of Medicine to prepare grant proposals seeking funding for their large, Center-type program designed to alleviate the opioid crisis

Threats

- As a result of CHPR's move out of the Grange building, the on-campus ICR rate is now required for new grant proposals submitted through CHPR, which can affect whether PIs submit their grant and contract applications through the Center
- Potential departure of staff due to 100% remote work opportunities elsewhere that come with salary increases and/or promotional opportunities
- Potential decline in collaboration with SOM departments and decline in grant submissions due to altered incentives in the SOM Funds Flow model
- Potential declines in relevant funding opportunities and increased competition for existing funding opportunities
- Reduced extramural funding may lead to loss of support for research staff

Personnel

Headcount & FTEs

For the purpose of the annual report, OR Human Resources investigated how the terms administrative and clerical are defined and determined that the categories should be defined as listed in the table below. The research unit managers may also wish to consider including additional categories if it would assist with further identifying headcount and FTE.

	Headcount	FTEs
Professional - 99 exempt employees (e.g., Analyst III and up, Sr/Assoc Engineers, Programmer IV-VII, Sr. Editor, Sr. Writer, Prog Rep III)	24	23.3
Administrative - 99 non-exempt employees (e.g., all Supervisor up to Analyst Grade II, Programmer I-III, Prog Reps I-II)	13	10.4
Clerical* - employees covered by the CX bargaining unit (e.g., a I-III, Senior Coder, Survey Worker)	1	1
Research - employees covered by the RX bargaining unit (e.g., SRA I-IV, Museum Scientist, Spectroscopist)	0	0
Service - employees covered by the SX bargaining unit (e.g., Custodian, Assistant Storekeeper, Food Service Worker, Cook, Security Officer, Animal Tech, Lab Helper, Lab Assist, Physical Plant Mechanic)	0	0
Technical - employees covered by the TX bargaining unit (e.g., Computer Resource Specialist, Artist, Development Technician II-V)	0	0
Other – employees not in categories listed above (e.g., Student Assistants, GSRs and Postdoctoral Fellows)	5	3
TOTAL Employees	43	37.70

Affiliated Count

The following table provides a count of all faculty affiliates, postdoctoral fellows, librarians and students involved in CHPR activities.

Role	Total Affiliated
Faculty	125
Postdoctoral Fellows and Postdocs	7
Graduate Students	5
Undergraduate Students	2
Librarians	1

Active Academic Personnel

The following table provides a list of faculty members actively engaged in CHPR research or supervision/mentoring.

Faculty Members	Title	Department
Agnoli, Alicia, M.D., M.P.H., M.H.S.	Assistant Professor	Family and Community Medicine
Bakerjian, Debra, Ph.D., R.N., F.N.P.	Clinical Professor	Betty Irene Moore School of Nursing
Bang, Heejung, Ph.D.	Professor	Public Health Sciences-Division of Biostatistics

Bell, Janice, Ph.D., M.P.H., M.N.	Professor	Betty Irene Moore School of Nursing
Buggs, Shani, Ph.D., M.D.	Assistant Professor	Emergency Medicine
Chen, Melissa Joy, M.D., M.P.H.	Assistant Professor	Obstetrics and Gynecology
Fenton, Joshua, M.D., M.P.H.	Professor and Vice Chair of Research	Family and Community Medicine
Henry, Stephen G., M.D., M.Sc.	Associate Professor	Internal Medicine
Hinton, Ladson, M.D.	Professor	Psychiatry and Behavioral Sciences
Hoch, Jeffrey, Ph.D.	Associate Director, Professor and Division Chief	Center for Healthcare Policy and Research, Division of Health Policy and Management, Public Health Sciences
Holmes, James, M.D., M.P.H.	Professor and Vice Chair for Research	Emergency Medicine
Jerant, Anthony, M.D.	Interim Director, Professor and Chair	Center for Healthcare Policy and Research, Family and Community Medicine
Karlin, Jennifer, M.D., Ph.D.	Assistant Professor	Family and Community Medicine
Keegan, Theresa, Ph.D., M.S.	Professor	Internal Medicine
Ko, Michelle, Ph.D., M.P.H.	Assistant Professor	Public Health Sciences
Kravitz, Richard, M.D., M.S.P.H.	Professor	Internal Medicine
Kuppermann, Nathan, M.D., M.P.H.	Distinguished Professor and Chair	Emergency Medicine
Magnan, Elizabeth, M.D., Ph.D.	Associate Professor	Family and Community Medicine
Marcin, James P., M.D., M.P.H.	Professor	Pediatrics
Melnikow, Joy, M.D., M.P.H.	Professor Emeritus	Family and Community Medicine
Moulin, Aimee, M.D.	Associate Clinical Professor	Emergency Medicine
Niendam, Tara, Ph.D.	Assistant Professor	Psychiatry and Behavioral Sciences
Nishijima, Daniel, M.D.	Associate Professor	Emergency Medicine
Romano, Patrick, M.D., M.P.H.	Professor	Internal Medicine and Pediatrics
Shaikh, Ulfat, M.D., M.P.H.	Professor	Pediatrics
Tancredi, Daniel J., Ph.D.	Professor	Pediatrics
Tong, Elisa, M.D., M.A.	Professor	Internal Medicine
Utter, Garth, M.D., M.Sc.	Professor	Surgery
Waetjen, L. Elaine, M.D.	Professor	Obstetrics and Gynecology

Postdoctoral Researchers, Graduate Students, Undergraduate Students

The following table provides a list of the names of undergraduate and graduate students and postdoctoral researchers directly contributing to CHPR who:

- a. are on the CHPR payroll, and/or
- b. participate—through assistantships, fellowships, or traineeships, or who are otherwise involved—in CHPR work.

Postdoctoral Fellows	Classification	Home Department
Abrahão, Renata, M.D., M.Sc., Ph.D.	Post-Doctoral Fellow	Internal Medicine
Chatterton, Brittany, M.D.	Post-Doctoral Clinical Fellow	Internal Medicine
Glaser, Katherine, M.D.	Post-Doctoral Clinical Fellow	Obstetrics and Gynecology
Hoyt-Austin, Adrienne, D.O., M.A.S., I.B.C.L.C.	Post-Doctoral Clinical Fellow	Pediatrics
Trenaman, Logan, Ph.D., M.Sc.	Post-doctoral Fellow	Center for Healthcare Policy and Research
Tseregounis, Iraklis Erik, Ph.D.	Post-Doctoral Fellow	Center for Healthcare Policy and Research
Zhang, Yi	Post-Doctoral Fellow	Public Health Sciences

Graduate Students	Classification	Home Department
Shannon Hearney	Graduate Student	Public Health Sciences
Rehman, Rukshanda	Graduate Student	UCD Center for Health and the Environment
Smith, Bridgette	Graduate Student	UCD One Health Institute
Sonia Singh, M.D.	Graduate Student	Public Health Sciences
Wang, Nan	Graduate Student	Public Health Sciences

Undergraduate Students	Classification	Home Department
Anene, Angel	Undergraduate	Political Science
Iwuagwu, Caidon	Undergraduate	Genome Center

Appendix 1: Strategic Plan

During FY 2021-2022, CHPR completed the following strategic planning tasks:

- 1) During this fiscal year, the 15-year review of CHPR as a UC Organized Research Unit (ORU) was completed and the Center was renewed as an ORU for 5 more years. The Review Committee was very supportive of CHPR continuing as an ORU and provided a number of recommendations, such as planning for space at Aggie Square, recruitment of a strong Director, and encouraging CHPR to develop additional collaborations with schools and colleges on the main (Davis) campus.
- 2) While not originally planned to take place during FY 2021-2022, CHPR relocated from the Grange location to the Broadway building after UCD Health advised CHPR leadership of the lease of the Grange building ending at the end of FY 2020-2021. (Previous to FY 2020-2021, CHPR and UCD Health leadership had explored whether the space at the Grange building should be brought up to seismic code or whether it would be more beneficial over the long-term for CHPR to move out of that leased space altogether.) Conducting the move required much coordination with numerous UCD Health, School of Medicine, and various campus departments, took place during the COVID-19 pandemic with limited availability of staff resources from these other units, and required joint investment from CHPR, the Office of Research, and the School of Medicine Dean's Office for new furniture, new lighting, fresh paint, new carpet, and new computing equipment.
- 3) Dr. Anthony Jerant, M.D., Professor and Chair, Department of Family and Community Medicine, became the Interim Director of CHPR effective July 1, 2021. Dr. Jerant took over for Dr. Joy Melnikow, who retired after 12 years of leading the Center; as an emeritus faculty member, Dr. Melnikow continues to support research projects and other activities at CHPR.
- 4) CHPR continued to brainstorm and seek ways to improve its visibility and branding during FY 2021-2022 and, in keeping with a recommendation from the review committee of the Center's 15-year ORU review, CHPR hired a new Digital Communications Specialist in January 2022.

Appendix 2: Publications

CHPR Affiliate and Grant PIs/Personnel Publications July 2021-June 2022

Affiliates and grant PIs/personnel in **BOLD**, **Post-doctoral Fellows*** and **Staff****

1. Abdelhadi OA, Joseph J, Pollock BH, **Keegan THM**. Additional medical costs of chronic conditions among adolescent and young adult cancer survivors. J Cancer Surviv. 2022 Jun;16(3):487-496. doi: 10.1007/s11764-021-01044-4. Epub 2021 Apr 26. PMID: 33899161.
2. Abdelhadi OA, Pollock BH, Joseph JG, **Keegan THM**. Psychological distress and associated additional medical expenditures in adolescent and young adult cancer survivors. Cancer. 2022 Apr 1;128(7):1523-1531. doi: 10.1002/cncr.34064. Epub 2022 Jan 10. PMID: 35001391.
3. Abdelhafez Y, Raychaudhuri SP, Mazza D, Sarkar S, Hunt HL, McBride K, Nguyen M, Caudle DT, Spencer BA, Omidvari NA, **Bang H**, Cherry SR, Nardo L, Badawi RD, Chaudhari AJ. Total-Body 18F-FDG PET/CT in Autoimmune Inflammatory Arthritis at Ultra-Low Dose: Initial Observations. J Nucl Med. 2022 May 19;jnumed.121.263774. doi: 10.2967/jnumed.121.263774. Epub ahead of print. PMID: 35589405.
4. Abid Z, **Kuppermann N, Tancredi DJ**, Dayan PS. Risk of Traumatic Brain Injuries in Infants Younger than 3 Months With Minor Blunt Head Trauma. Ann Emerg Med. 2021 Sep;78(3):321-330.e1. doi: 10.1016/j.annemergmed.2021.04.015. Epub 2021 Jun 17. PMID: 34148662.
5. **Abrahão R***, Alvarez EM, Waters AR, Romero CC, **Gosdin MM****, **Naz H****, Pollock BH, Kirchhoff AC, **Keegan THM**. A qualitative study of barriers and facilitators to adolescents and young adults' participation in cancer clinical trials: Oncologist and patient perspectives. Pediatr Blood Cancer. 2022 Apr;69(4):e29479. doi: 10.1002/pbc.29479. Epub 2021 Dec 16. PMID: 34913583.
6. **Abrahão R***, Brunson AM, Kahn JM, Li QW, Wun T, **Keegan THM**. Second primary malignancy risk after Hodgkin lymphoma treatment among HIV-uninfected and HIV-infected survivors. Leuk Lymphoma. 2022 May;63(5):1091-1101. doi: 10.1080/10428194.2021.2020775. Epub 2022 Jan 6. PMID: 34989283.
7. **Abrahão R***, Cooley JJP, Maguire FB, Parikh-Patel A, Morris CR, **Schwarz EB**, Wun T, **Keegan THM**. Early mortality and survival improvements for adolescents and young adults with acute promyelocytic leukemia in California: an updated analysis. Haematologica. 2022 Mar 1;107(3):733-736. doi: 10.3324/haematol.2021.278851. PMID: 34320784; PMCID: PMC8883531.
8. **Agnoli A, Xing G****, **Tancredi DJ, Magnan E, Jerant A, Fenton JJ**. Association of Dose Tapering With Overdose or Mental Health Crisis Among Patients Prescribed Long-term Opioids. JAMA. 2021 Aug 3;326(5):411-419. doi: 10.1001/jama.2021.11013. Erratum in: JAMA. 2022 Feb 15;327(7):688. Erratum in: JAMA. 2022 Feb 15;327(7):687. PMID: 34342618; PMCID: PMC8335575.
9. Aguirre A, Sharma K, Arora A, **Humphries MD***. Early ABI Testing May Decrease Risk of Amputation for Patients With Lower Extremity Ulcers. Ann Vasc Surg. 2022 Feb;79:65-71. doi: 10.1016/j.avsg.2021.08.015. Epub 2021 Oct 14. PMID: 34656726.
10. Alvarez E, Le T, Kahn J, Winestone L, Li Q, **Keegan T**. Comorbidities and socioeconomic status are predictors of survival in children and young adults with Burkitt lymphoma. Leuk Lymphoma. 2021 Nov;62(11):2804-2807. doi: 10.1080/10428194.2021.1932873. Epub 2021 Jun 1. PMID: 34060969.
11. Alvarez E, Malogolowkin M, Pollock BH, Li Q, Johnston E, Marina N, Wun T, Thorpe S, **Keegan T**. Impact of location of inpatient cancer care on patients with Ewing sarcoma and osteosarcoma-A population-based study. Pediatr Blood Cancer. 2021 Jul;68(7):e28998. doi: 10.1002/pbc.28998. Epub 2021 Mar 15. PMID: 33720485.
12. Alvarez E, Spunt SL, Malogolowkin M, Li Q, Wun T, Brunson A, Thorpe S, Kreimer S, **Keegan T**. Treatment at Specialized Cancer Centers Is Associated with Improved Survival in Adolescent and

Young Adults with Soft Tissue Sarcoma. J Adolesc Young Adult Oncol. 2021 Dec 15. doi: 10.1089/jayao.2021.0110. Epub ahead of print. PMID: 34910881.

13. Anglin DM, Ereshefsky S, Klaunig MJ, Bridgwater MA, **Niendam TA**, Ellman LM, DeVylder J, Thayer G, Bolden K, Musket CW, Grattan RE, Lincoln SH, Schiffman J, Lipner E, Bachman P, Corcoran CM, Mota NB, van der Ven E. From Womb to Neighborhood: A Racial Analysis of Social Determinants of Psychosis in the United States. Am J Psychiatry. 2021 Jul;178(7):599-610. doi: 10.1176/appi.ajp.2020.20071091. Epub 2021 May 3. PMID: 33934608; PMCID: PMC8655820.
14. Aranbarri A, Stahmer AC, Talbott MR, **Miller ME****, Drahota A, Pellecchia M, Barber AB, Griffith EM, Morgan EH, Rogers SJ. Examining US Public Early Intervention for Toddlers With Autism: Characterizing Services and Readiness for Evidence-Based Practice Implementation. Front Psychiatry. 2021 Dec 16;12:786138. doi: 10.3389/fpsy.2021.786138. PMID: 34975582; PMCID: PMC8716593.
15. Aranda MP, Kremer IN, **Hinton L**, Zissimopoulos J, Whitmer RA, Hummel CH, Trejo L, Fabius C. Impact of dementia: Health disparities, population trends, care interventions, and economic costs. J Am Geriatr Soc. 2021 Jul;69(7):1774-1783. doi: 10.1111/jgs.17345. PMID: 34245588; PMCID: PMC8608182.
16. Aravena JM, Gajardo J, Saguez R, **Hinton L**, Gitlin LN. Nonpharmacologic Interventions for Family Caregivers of People Living With Dementia in Latin-America: A Scoping Review. Am J Geriatr Psychiatry. 2021 Nov 2:S1064-7481(21)00522-4. doi: 10.1016/j.jagp.2021.10.013. Epub ahead of print. PMID: 34848116.
17. Azenkot T, **Chatterton B***, **Schwarz EB**. Anticoagulant Prescriptions Provided in US Ambulatory Practice, 2014 to 2016. J Gen Intern Med. 2022 Apr 11. doi: 10.1007/s11606-022-07536-y. Epub ahead of print. PMID: 35411531.
18. Azenkot T, **Schwarz EB**. Special Considerations for Women of Reproductive Age on Anticoagulation. J Gen Intern Med. 2022 May 31. doi: 10.1007/s11606-022-07528-y. Epub ahead of print. PMID: 35641728.
19. Baker ZG, Nkimbeng M, Cuevas PEG, Quiñones AR, Kang HK, Gaugler JE, **Hinton L**, Gitlin LN, Shippee TP. Simultaneously Developing Interventions for Low-/Middle-Income and High-Income Settings: Considerations and Opportunities. Gerontologist. 2022 Jun 9:gnac079. doi: 10.1093/geront/gnac079. Epub ahead of print. PMID: 35679613.
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21. Barney A, Rodriguez F, **Schwarz EB**, Reed R, **Tancredi D**, Brindis CD, Dehlendorf C, Tebb KP. Adapting to Changes in Teen Pregnancy Prevention Research: Social Media as an Expedited Recruitment Strategy. J Adolesc Health. 2021 Aug;69(2):349-353. doi: 10.1016/j.jadohealth.2020.12.140. Epub 2021 Feb 23. PMID: 33632643.
22. Benipal S, **Kuppermann N**, **Tancredi DJ**, Rivara FP, **Wang J**, **Nishijima DK***. Discriminatory Capacity of the Physical Domain Versus the Full-Scale Pediatric Quality of Life Inventory With Traumatic Brain Injury Severity in Children. Am J Phys Med Rehabil. 2022 May 1;101(5):504-508.
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29. Chang E, **Dove M***, Saw A, Tsoh JY, Fung LC, **Tong EK**. Home Smoking Bans and Urinary NNAL Levels to Measure Tobacco Smoke Exposure in Chinese American Household Pairs. *Int J Environ Res Public Health*. 2021 Jul 20;18(14):7682. doi: 10.3390/ijerph18147682. PMID: 34300133; PMCID: PMC8305615.
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32. **Chen MJ**, **Kair LR**, **Schwarz EB**, Creinin MD, Chang JC. Future Pregnancy Considerations after Premature Birth of an Infant Requiring Intensive Care: A Qualitative Study. *Womens Health Issues*. 2022 Apr 28:S1049-3867(22)00028-7. doi: 10.1016/j.whi.2022.03.004. Epub ahead of print. PMID: 35491347.
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42. Curfman AL, Hackell JM, Herendeen NE, Alexander JJ, **Marcin JP**, Moskowitz WB, Bodnar CEF, Simon HK, McSwain SD; SECTION ON TELEHEALTH CARE, COMMITTEE ON PRACTICE AND AMBULATORY MEDICINE, COMMITTEE ON PEDIATRIC WORKFORCE. Telehealth: Improving Access to and Quality of Pediatric Health Care. *Pediatrics*. 2021 Sep;148(3):e2021053129. doi: 10.1542/peds.2021-053129. PMID: 34462339.
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45. DiLosa KL, **Humphries MD***, Mell MW. Intern Perceptions and Participation in the Operating Room. *J Surg Educ*. 2022 Jan-Feb;79(1):94-101. doi: 10.1016/j.jsurg.2021.08.007. Epub 2021 Aug 25. PMID: 34452855.
46. **Dove MS***, Stewart SL, **Tong EK**. Smoking behavior in 18-20 year-olds after tobacco 21 policy implementation in California: A difference-in-differences analysis with other states. *Prev Med*. 2021 Jul;148:106553. doi: 10.1016/j.ypmed.2021.106553. Epub 2021 Apr 18. PMID: 33862032.
47. Drabkin A, Adler RN, Altman W, Ehrlich AM, **Agnoli A**, Alper BS. Clinical Quality Measures: A Challenge for-and to-Family Physicians. *J Am Board Fam Med*. 2022 Mar-Apr;35(2):427-434. doi: 10.3122/jabfm.2022.02.210294. PMID: 35379732.
48. **Elder JW**, Gu Z, Kim J, **Moulin A, Bang H**, Parikh A, **May L**. Assessing local California trends in emergency physician opioid prescriptions from 2012 to 2020: Experiences in a large academic health system. *Am J Emerg Med*. 2022 Jan;51:192-196. doi: 10.1016/j.ajem.2021.10.029. Epub 2021 Oct 24. PMID: 34763238; PMCID: PMC8684538.
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50. **Fenton JJ, Magnan E, Tseregounis IE*, Xing G**, Agnoli AL, Tancredi DJ**. Long-term Risk of Overdose or Mental Health Crisis After Opioid Dose Tapering. *JAMA Netw Open*. 2022 Jun 1;5(6):e2216726. doi: 10.1001/jamanetworkopen.2022.16726. PMID: 35696163.

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52. **Fenton JJ.** Errors in Data Analysis and Outcomes Coding in Study of Dose Tapering and Overdose or Mental Health Crisis in Patients Prescribed Opioids. *JAMA.* 2022 Feb 15;327(7):687. doi: 10.1001/jama.2022.0323. PMID: 35166803.
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249. Zheng Y, Liu XL, Hsieh LT, Hurtado M, Wang Y, **Niendam TA**, Carter CS, Ranganath C, Ragland JD. Disrupted Modulation of Alpha and Low Beta Oscillations Mediates Temporal Sequence Memory Deficits in People With Schizophrenia. *Biol Psychiatry Cogn Neurosci Neuroimaging*. 2021 Dec;6(12):1157-1164. doi: 10.1016/j.bpsc.2021.04.002. Epub 2021 Apr 17. PMID: 33862254; PMCID: PMC8522179.
250. Zrelak PA, **Uffer GH**, McDonald KM, Houchens RL, Davies SM, Skinner HG, Owens PL, **Romano PS**. Incorporating harms into the weighting of the revised Agency for Healthcare Research and Quality Patient Safety for Selected Indicators Composite (Patient Safety Indicator 90). *Health Serv Res*. 2022 Jun;57(3):654-667. doi: 10.1111/1475-6773.13918. Epub 2022 Jan 9. PMID: 34859429; PMCID: PMC9108039.

Appendix 3: Outreach Activities

Notable Outreach Activities

- In partnership with the California Health Benefits Review Program, CHPR faculty and staff members contributed non-partisan, evidence-based analyses of effectiveness, public health impacts, and cost and utilization of proposed health insurance legislation to inform state lawmaker decisions. Nine bills were analyzed in a 60-day time period, meeting the state legislature's policy committee timeline.
- The CHPR Seminar Series (**see Appendix 5 Table 2**) continued to be held virtually and with great success. Presentations were also posted online in order to be available for later viewing.
- CHPR co-hosted a joint research forum with the UC Davis Perinatal Origins of Disparities (POD) Center on May 25, 2022. The forum featured brief presentations and discussions among CHPR and POD researchers on a variety of topics of mutual interest.
- CHPR co-hosted a joint research forum with the UC Davis Center for Poverty and Inequality Research (CPIR) on October 29, 2021. This joint forum highlighted the work of faculty with overlapping research interests with the goal of sparking new collaborations, and was well attended.
- Several CHPR staff members participated in the Research Expo sponsored by the Office of Research held on May 11, 2022.
- CHPR newsletters were widely distributed on a quarterly basis.

CHPR faculty affiliates (highlighted in **bold**) continue to **disseminate their work at national and international meetings**. Examples of presentations given by CHPR-affiliated faculty during FY 2021-2022 are listed below.

* indicates present or previous CHPR post-doctoral fellows; ** indicates CHPR staff.

1. Aaron DG, Dejean J, **Ko M**, Perez-Stable, E, Silvera S. "Structural racism and the workforce," presented at the Roundtable on Obesity Solutions Workshop, National Academies of Science, Engineering and Medicine, April 19, 2022.
2. **Agnoli A, Xing G, ** Tancredi D, Jerant A, Magnan EM, Fenton JJ**. "Risk of overdose and mental health crisis associated with dose disruption in patients on long-term lower dose opioid therapy," presented at the 2021 NAPCRG 49th Annual Meeting (virtual), November 19-23, 2021.
3. **Backman D, ** Kohatsu N. **** "Addressing Health Disparities: The Prevention Policy & Practice Group in Action," presented at the Joint Research Forum: Center for Healthcare Policy and Research/Center for Poverty and Inequality Research, UC Davis, October 29, 2021.
4. **Backman D, ** Kohatsu N. **** "Greening and Health," presented to UC Davis MPH Students, UC Davis SOM, February 2, 2022.
5. **Backman D, ** Kohatsu N. **** "Partnering with Healthcare to Advance Population Health: The Role of State and Local Health Departments," invited seminar for leadership, US Centers for Disease Control and Prevention, August 4, 2021.
6. **Backman D, ** Kohatsu N. **** "Strategic Planning in Public Health Practice," presented to MPH and MPA Students at the University of San Francisco, November 2, 2021.

7. **Backman D,** Kohatsu N.**** "The Healthy Living Clinic Initiative – Using a Whole Health & Quality Improvement Approach to Advance Tobacco Cessation, presented at the National Conference on Tobacco or Health, June 30, 2022.
8. **Backman D,** Kohatsu N.**** "The Koa Family Study," presented at the UC CalFRESH Town Hall, February 15, 2022.
9. **Backman D,** Kohatsu N.**** "The Koa Family Study," presented at the CHPR Research Seminar, March 30, 2022.
10. **Backman D,** Kohatsu N.**** "The Koa Family Study: A Randomized Controlled Trial," presented at the UC Davis CalFRESH Healthy Living Seminar, July 30, 2021.
11. **Backman D.**** "Building Partnerships with State Agencies to Advance Health and Well-being in California," presented at the California State University, Sacramento, Graduate Course on Grant Writing and Resource Development, April 3, 2022.
12. **Bang H.** "Blinding Assessment in Clinical Trials: a review and meta-analytic approach, presented (via Zoom) at the Joint Statistical Conference for Clinical Trials and Research," Seoul, Korea, November 2021.
13. **Bang H.** "Blinding Assessment in Clinical Trials: a review and meta-analytic approach, presented (via Zoom) at the Korean Medicine Convergence Research Information Centre, Seoul, Korea, May 2022.
14. **Bang H.** "Why Good Prediction Models Fail in Biomedicine: beyond statistics & modeling," presented (via Zoom) in the Brain Korea scholar series, Department of Applied Statistics and Data Science, Yonsei University. Seoul, Korea, January 2022.
15. **Bang H.** "Why Good Prediction Models Fail in Biomedicine: beyond statistics & modeling," presented (via Zoom) at UNC-Greensboro, March 2022.
16. **Chatterton B,* Shaikh U.** "High Value Care: Case of Lower Back Pain," Co-presented at the UC Davis School of Medicine, November 2021.
17. **Chatterton B.*** "Alcohol Screening During US Primary Care Visits," presented (virtually) for the UC Davis Center for Healthcare Policy and Research Seminar Series, May 2022.
18. DiLosa KL, **Humphries MD,*** Mell MW. "Intern Perceptions and Participation in the Operating Room," presented at the University of California Resident Research Day, April 20, 2021.
19. Geiger J, Curtis E, Nuno M, **Humphries, MD.*** "A Needs Assessment for Palliative Care Curriculum Development in Surgical Residents," presented at the University of California Resident Research Day, April 20, 2021.
20. **Glaser K.*** "Combating Maternal Morbidity and Mortality as a State," presented at the American Hospital Association 2022 Rural Health Care Leadership Conference, Phoenix, AZ, February 7, 2022.
21. **Glaser K.*** "John Gibbons, Jr. Lecture: Life as an OB/Gyn," panelist, American College of Obstetricians and Gynecologists Annual Clinical and Scientific Meeting, San Diego, CA, May 6, 2022.
22. **Glaser K.*** "The Impact of Restrictions on Federally-Funded Reproductive Health Care," presented for the Center for Health Policy and Research Seminar Series, Sacramento, CA, June 15, 2022.
23. Hao D, Lin J, Liu R, Yamashio K, Schutzman L, **Farmer D, Humphries MD,*** Panitch A, Lam, Wang A. "Developing a novel vascular device coating technology to improve rapid endothelialization, inhibit platelet binding, and suppress thrombosis," presented at the University of California Resident Research Day, April 20, 2021.
24. **Holmes J.** "Strategies for Traumatic Brain Injury Care in the United States," presented at The Pan-Asian Trauma Outcomes Study 7th Research Workshop, Seoul, Korea, August 23, 2021.
25. **Holmes J.** "Anticoagulation reversal – warfarin and the direct oral anticoagulants," presented at the Topics in Emergency Medicine meeting, Carlsbad, CA, February 19, 2022.
26. **Holmes J.** "Anticoagulation Reversal: Warfarin and the Direct Oral Anticoagulants," presented at the Topics in Emergency Medicine meeting, Napa, CA, December 1, 2021.

27. **Holmes J.** "Chest Pain risk stratification in 2022: High sensitivity troponin and other testing," presented at the Topics in Emergency Medicine, Carlsbad, CA, February 19, 2022.
28. **Holmes J.** "Clinical Decision Rules: Evidence-Based Medicine to Improve Care," presented at the Topics in Emergency Medicine meeting, Napa, CA, November 29, 2021.
29. **Holmes J.** "Clinical Decision Rules: Evidence-Based Medicine to Improve Care," presented at the Topics in Emergency Medicine meeting, Carlsbad, CA, February 17, 2022.
30. **Holmes J.** "ED Clearance of the Psychiatric Patient," presented at the Topics in Emergency Medicine meeting, Napa, CA, December 1, 2021.
31. **Holmes J.** "ED clearance of the Psychiatric," presented at the Topics in Emergency Medicine meeting, Carlsbad, CA, February 19, 2022.
32. **Holmes J.** "Evaluation of the Minor Trauma Patient: Evidence-Based," presented at the Topics in Emergency Medicine meeting, Napa, CA, November 30, 2021.
33. **Holmes J.** "Incidental findings on Abdominal CT in Pediatric Trauma Patients," presented at the Society of Academic Emergency Medicine Western Regional Meeting, April 1, 2022.
34. **Holmes J.** "Initial Evaluation / Resuscitation of the Injured Trauma Patient: Updates to Know," presented at the Topics in Emergency Medicine meeting, Napa, CA, November 29, 2021.
35. **Holmes J.** "Initial Evaluation of the Minor Injured Patient – Appropriate Management," presented at the Topics in Emergency Medicine meeting, Carlsbad, CA, February 17, 2022.
36. **Holmes J.** "Maintaining Health in Emergency Medicine – Am I burning out?" presented at the Topics in Emergency Medicine meeting, Carlsbad, CA, February 20, 2022.
37. **Holmes J.** "Maintaining Health in Emergency Medicine: Am I Burning Out?" presented at the Topics in Emergency Medicine meeting, Napa, CA, December 2, 2021.
38. **Holmes J.** "Malpractice in the Emergency Department: How to Avoid It" presented at the Topics in Emergency Medicine meeting, Napa, CA, December 2, 2021.
39. **Holmes J.** "Pain Control in the ED: Managing the Opiate Crisis," presented at the Topics in Emergency Medicine meeting, Napa, CA, December 2, 2021.
40. **Holmes J.** "Pain management in the ED: to use opiates or not," presented at the Topics in Emergency Medicine meeting, Carlsbad, CA, February 19, 2022.
41. **Holmes J.** "Posterior Circulation Stroke: evaluation and treatment," presented at the Topics in Emergency Medicine meeting, Carlsbad, CA, February 19, 2022.
42. **Holmes J.** "Recent EM articles that every EM clinician should know," presented at the Topics in Emergency Medicine meeting, Carlsbad, CA, February 18, 2022.
43. **Holmes J.** "Study Design and Overview," presented at the Advanced Research Methodology Evaluation and Design (ARMED) meeting, Boston, MA, October 23, 2021.
44. **Holmes J.** "Validation of the PECARN Abdominal Trauma Prediction Rule," presented at the Society of Academic Emergency Medicine Annual National Meeting, May 11, 2022. (This abstract was awarded the "SAEM22 Award for Best Faculty Abstract and Presentation.")
45. **Holmes J.** "Validation of the PECARN Head Trauma Prediction Rule," presented at the Society of Academic Emergency Medicine Western Regional Meeting, April 1, 2022. (This abstract was awarded the "Western SAEM Best Precision Medicine Abstract.")
46. **Howe R,* Agnoli A,** Amadi G, **Bell J,** Bidwell J, **Fenton JJ, Marcin J.** "Bowling Alone to Scrolling Alone: How new telehealth use is associated with social isolation among older adults during COVID-19," presented (virtually) at the North American Primary Care Research Group (NAPCRG) meeting, November 19-23, 2021.
47. **Howe R,* Bell J,** Bidwell J, Amadi G, **Fenton J, Agnoli A.** "Association of social isolation and loneliness with telehealth use among older adults during COVID-19," presented at the Society of Teachers of Family Medicine (STFM) Annual Conference, May 1-4, 2022.
48. **Howe R,* Fenton JJ,** Amadi G, **Agnoli A.** "Bowling alone to scrolling alone: How telehealth is associated with social isolation among older adults during COVID-19," poster presentation at the 2021 NAPCRG 49th Annual Meeting, November 2021.
49. **Humphries MD.*** "Center for Connected Health Annual Policy Update," presented virtually, November 2, 2021.

50. **Humphries MD.*** "Development of Remote Limb Preservation Programs: Challenges and Successes," presented at the Vascular Cures: Vascular Health and Innovation Summit, San Francisco, CA, September 2021.
51. **Humphries MD.*** "TCAR vs CEA: Which is the best care," presented at the Vascular and Endovascular Surgery Society Annual Meeting, January 2022.
52. **Humphries MD.*** "Telemedicine in Wound Care," presented at the American College of Surgeons Clinical Congress (virtual), October 2021.
53. **Jerant A.** "Annual Chair's State of the Department Address," presented at the UC Davis Department of Family and Community Medicine Grand Rounds (virtual), August 2021.
54. **Jerant A.** "Collaborative Mental Health Care in ACC Clinic – Launch Presentation," co-presenter at the UC Davis Department of Family and Community Medicine Grand Rounds (virtual), October 2021.
55. **Keegan THM, Abrahão R.*** "Social determinants of health influencing cancer diagnosis and health outcomes in AYAs (15-39 years), invited plenary presentation given at the 4th Global Adolescent and Young Adult Cancer Congress (virtual), December 2, 2021.
56. **Ko M,** Simon M, London MR, **Fancher T,** Henderson M, Hardeman R. "Diversity and inclusion in medical school admissions: Where are we now?" presented at the Learn Serve Lead session of the meeting of the Association of American Medical Colleges, November 8, 2021.
57. **Ko M.** "The anti-Asian racism of U.S. COVID-19 policy," presented at the Tufts University Global Health Seminar, Boston, MA, May 27, 2022.
58. **Kohatsu N.**** "Health Care Financing and Delivery," presented to UC Davis Medical Students, UC Davis SOM, January 24, 2022.
59. **Kohatsu N.**** "MDS 415C: Tobacco Cessation," lecture in course for UC Davis Medical Students, UC Davis SOM, August 19, 2021.
60. **Kohatsu N.**** "Vaccine Roundtable," presented at the American College of Preventive Medicine, March 8, 2022.
61. **Kravitz R.** "Clinical Negotiation," a workshop presented at the Society of General Internal Medicine National Meeting, Orlando FL, May 2022.
62. **Magnan EM, Agnoli A, Xing G,** Tancredi D, Jerant A,** and **Fenton JJ.** "Long-term opioid dose reduction and subsequent healthcare utilization in patients with hypertension or diabetes," presented at the 2021 NAPCRG 49th Annual Meeting (virtual), November 19-23, 2021.
63. **Magnan EM,** Marshall S and Nguyen T. "Developing a New Research and Scholarly Activity Curriculum that Supports "Back Up" Clinical Needs," presented at the Society of Teachers of Family Medicine Annual Spring Conference (virtual poster), September 13-15, 2021.
64. Maguire FB, Li QW, **Abrahão R,*** Malogolowkin MH, Chen H, Morris CR, Parikh-Patel A, **Keegan THM,** Alvarez EM. "Receipt of guideline-congruent care among AYA patients with ovarian germ cell tumors," poster presentation at the North American Association of Cancer Registries (NAACCR), Idaho, USA, June 14-16, 2022.
65. **Marcin J.** "Expand Your Reach: How to Leverage Telehealth for Underserved Communities," presented at the Becker's Healthcare Telehealth Virtual Forum (virtual), March 10-11, 2022.
66. **Marcin J.** "Pediatric Telemedicine: Virtually There," presented at Grand Rounds, University of California, San Francisco-Fresno, Department of Pediatrics, January 4, 2022.
67. **Marcin J.** "Remote Patient Monitoring: Does it Really Work? Reviewing the Evidence," presented at the 2022 Remote Patient Monitoring Summit, Las Vegas, NV, January 31 – February 1, 2022.
68. **Marcin J.** "Research Infrastructure in Academic Medical Centers," panel presentation at the National Telehealth Research Symposium (virtual), November 8-10, 2021.
69. **Marcin J.** "Telehealth and Equity Following COVID-19," presented at the American Academy of Pediatrics' National Conference & Exhibition, Philadelphia, PA, October 8-12, 2021.
70. **Marcin J.** "Telehealth for Children with Special Healthcare Needs," presented at the Family Voices of CA Health Summit (virtual), November 3, 2021.
71. **Marcin J.** "Telehealth in Pediatric Emergency Management," presented at the California Hospital Association Annual Meeting (virtual), September 14-15, 2021.

72. **Marcin J.** "Using Telemedicine to Increase Access to Care in the US," presented at Hospital Garrahan, Buenos Aires, Argentina, November 17, 2021.
73. **Marcin J.** Workshop: "Emerging Telepresence Technologies in Hybrid Learning Environments," presented at the Association of Computing Machinery (ACM) and Computer Human Interaction (CHI) Conference on Human Factors in Computing Systems, New Orleans, LA, April 30 – May 6, 2022.
74. Noyon T, Arora N, Lalapet T, Amadi G, **Magnan E, Howe R.*** "Department-wide quality improvement effort to increase medication reconciliation completion rate," presented at the Society of Teachers of Family Medicine (STFM) Annual Conference, May 1-4, 2022.
75. Noyon T, **Howe R,*** Arora N, **Magnan E,** Amadi G. "Department-Wide Quality Improvement (QI) Effort to Increase Medication Reconciliation Completion Rate," Fellows, Residents, Or Students Research Works-in-Progress poster presentation at the STFM Spring Conference, Indianapolis, IN, April 30-May 4 2022.
76. **Ritley D,** Magnan EM.** Co-presented a lecture at the Perinatal Origins of Disparities Impact Center/CHPR Research Forum, May 25, 2022.
77. **Ritley D.**** Presented a lecture in the UC Davis SOM's "First Aid for Health Policy" course, August 2021.
78. Singh A, Thorpe S, **Keegan THM,** Maguire FB, Malogolowkin MH, **Abrahão R,*** Spunt S, Carr-Asher J, Alvarez EM. "Factors Associated with Choice of Treatment and Survival Outcomes in Synovial Sarcoma," poster presentation (virtual) at the American Society of Clinical Oncology (ASCO) meeting, Chicago, IL, June 3–7, 2022.
79. **Tserigounis IE,*** Delcher C, Stewart SL, Gasper JJ, **Henry SG.** "Impact of California Wildfires on Patient Access to Prescription Opioids," presented at the Environmental Health Sciences Center, Davis, CA, October 2021.

Appendix 4: Education

Appendix 5 Table 1. Current Postdoctoral Fellows Affiliated with CHPR

Fellow Name (Start Year)	Training Program	Department/Affiliation	Mentor(s)	Project(s)
Abrahão, Renata, M.D., M.Sc., Ph.D. (2019-2022)	QSCERT-PC	Division of Hematology/Oncology	Dr. Theresa Keegan	Developing health policies to enhance cancer outcomes and decrease health disparities, especially among pediatric, adolescent and young adult cancer survivors
Chatterton, Brittany, M.D. (2020-2022)	QSCERT-PC	Department of Internal Medicine	Dr. Eleanor Bimla-Schwarz	Evaluating alcohol screening among ambulatory visits made by US adult primary care patients and identifying characteristics predictive of alcohol screening
Glaser, Katherine, MD, MPH (2020-2022)	QSCERT-PC	Obstetrics and Gynecology	Dr. Eleanor Bimla-Schwarz	Studying postpartum diabetes screening among patients with gestational diabetes in an integrated healthcare system
Hoyt-Austin, Adrienne, D.O., M.A.S., I.B.C.L.C. (2019-Jul '21)	QSCERT-PC	Department of Pediatrics	Dr. Laura Kair Dr. Caroline Chantry	Conducting a randomized evaluation of hybrid telesimulation with standardized patients for Breastfeeding Education of Pediatric and Family Medicine trainees
Trenaman, Logan, Ph.D., M.Sc. (2020- Oct '21)	Post-doctoral fellow	CHPR	Dr. Jeffrey Hoch	Health economics research on net benefits of regression and applied use of cost-effectiveness by ICER
Tseregounis, Erik, Ph.D. (2014– Oct '21)	Post-doctoral fellow	Department of Internal Medicine	Dr. Stephen Henry	Risk-prediction analysis and model development for opioid-related harms
Zhang, Yi, Ph.D. (2021-2022)	Post-doctoral Fellow	CHPR	Dr. Jeffrey Hoch	Multiple health services research projects with multiple investigators across disciplines

Appendix 5 Table 2. CHPR Seminars during FY 2021 – 2022

Presenter	Title/Organization	Presentation	Date
Heath, Anna, Ph.D.	Assistant Professor, Biostatistics, University of Toronto	Research Prioritization and Design using Value of Information: A Gentle Introduction	September 29, 2021
Perrailon, Marcelo, Ph.D.	Associate Professor, Health Economics,	Difference-in-Difference Research Designs:	October 6, 2021

	Colorado School of Public Health	Identification and Applications	
Smith, Jeremy, Ph.D.	Director of Regional Planning, Truckee Meadows Regional Planning (TMRPA)	Truckee Meadows COVID Risk Meter: A Collaborative Approach to Messaging Community Risk from COVID-19	October 13, 2021
Peacock, Stuart, Ph.D.	Professor, Health Sciences, Simon Fraser University	COVID-19 and its Impact on Cancer Patients, Survivors and Systems: Unintended Consequences and Early Lessons	October 20, 2021
Martin, Natasha, D.Phil.	Associate Professor, Infectious Diseases and Global Public Health, UC San Diego	Data Analytics and Epidemic Modeling Informing COVID Mitigation at UC San Diego: How We Return to Learn	October 27, 2021
Sutradhar, Rinku, Ph.D.	Associate Professor, Clinical Epidemiology, University of Toronto	Trouble with the Relatives: An HR Issue	November 3, 2021
Philbin, Morgan, Ph.D., M.H.S.	Assistant Professor, Sociomedical Sciences, Columbia University Mailman School of Public Health	The Changing Landscape of Cannabis Policies in the United States and Experiences Among Black and Latinx Youth and Young Adults: A Mixed Methods Analysis	November 10, 2021
Moulin, Aimee, M.D.	Professor, Emergency Medicine, UC Davis Health	Addiction is an Emergency: A New Model of Care for Substance Use	November 17, 2021
Hoch, Jeffrey, Ph.D.	Professor and Chief, Division of Health Policy and Management, Department of Public Health Sciences Associate Director, Center for Healthcare Policy and Research	What I Like About Doing Health Economic Research	December 1, 2021
Valle, Michael, M.P.A. Yegian, Jill, Ph.D.	Chief Information Officer/Deputy Director, Information Services, Department of Health Care Access and Information Principal, Yegian Health Insights, LLC	Launching the Nation's Largest All-Payer Claims Database	December 8, 2021

Brown, Paul, Ph.D., M.S.	Professor, Public Health, UC Merced	Return on Investment for a Diabetes Prevention Program: The Merced California Accountable Communities for Health Initiative	January 12, 2022
Popejoy, Alice, Ph.D.	Assistant Professor, Public Health Sciences, UC Davis Health	Racial and Ethnic Classification in Research and Medicine: History, Racism, and Implications for Clinical Care	January 19, 2022
Horn, Danea, Ph.D.	Postdoctoral Scholar, Stanford University	Technology Adoption and Market Allocation: The Case of Robotic Surgery	February 2, 2022
Harrison, Mark, Ph.D., M.Sc.	Associate Professor, Scientist, Centre for Health Evaluation and Outcome Sciences, University of British Columbia	Co-Producing Randomized Clinical Trials with Patients: A Hypothetical Case Study in Scleroderma	February 9, 2022
Buggs, Shani, Ph.D., M.P.H.	Assistant Professor, Violence Prevention Research Program, California Firearm Violence Research Center, UC Davis	Community-Based Violence Intervention: What It Is and Why It Is Essential for Violence Reduction	February 16, 2022
Tancredi, Daniel, Ph.D., M.S.	Professor, Pediatrics, UC Davis Health	In Conversation with Dr. Dan Tancredi	February 23, 2022
Whittington, Melanie, Ph.D., M.S.	Director, Health Economics, Institute for Clinical and Economic Review	Cost-Effectiveness and Value-Based Pricing of Aducanumab for Patients with Early Alzheimer's Disease	March 2, 2022
George, Kristen, Ph.D., M.P.H.	Assistant Professor, Department of Public Health Sciences, UC Davis Health	Impact of Life Course Risk Factors on Cognitive Aging and Impairment	March 9, 2022
Whipps, Mackenzie, Ph.D., C.L.C.	Postdoctoral Scholar, Perinatal Origins of Disparities Center, Department of Human Ecology, UC Davis	Collateral Benefits: Insights from a Pragmatic, Mixed-Method Impact and Process Evaluation of a School-Readiness Intervention	March 16, 2022

<p>Backman, Desiree, Dr.PH, M.S., R.D.</p> <p>and</p> <p>Kohatsu, Neal, M.D., M.P.H., FACPM</p>	<p>Chief, Prevention Policy & Practice Group, Center for Healthcare Policy and Research, UC Davis</p> <p>Chief Health Strategist, Prevention Policy & Practice Group, Center for Healthcare Policy and Research, UC Davis</p>	<p>Achieving Weight Loss Through a Community-Based, Telewellness Program: A Randomized Controlled Trial</p>	<p>March 30, 2022</p>
<p>Marahatta, Sujan, Ph.D., M.A.</p>	<p>Professor, Public Health, Manmohan Memorial Institute of Health Sciences and Nepal Open University</p>	<p>Nepal: COVID-19 Pandemic and Responses</p>	<p>April 6, 2022</p>
<p>Hoch, Jeffrey, Ph.D.</p>	<p>Professor and Chief, Division of Health Policy and Management, Department of Public Health Sciences Associate Director, Center for Healthcare Policy and Research</p>	<p>What Can We Learn from the ICERs in ICER's Report: The Case of a New Drug for Alzheimer's Disease</p>	<p>April 13, 2022</p>
<p>Scott, Linette, M.D., M.P.H.</p>	<p>Chief Data Officer and Deputy Director of Enterprise Data and Information Management, California Department of Health Care Services</p>	<p>Data Driving Action at DHCS</p>	<p>April 20, 2022</p>
<p>Jamison-McClung, Denneal, Ph.D.</p>	<p>Professor and Director, Biotechnology Program, UC Davis</p>	<p>Social Media, Research Communication and Professional Networking</p>	<p>April 20, 2022</p>
<p>Chatterton, Brittany, M.D.</p>	<p>QSCERT-PC Fellow, Department of Internal Medicine, UC Davis Health</p>	<p>Alcohol Screening Among U.S. Primary Care Physicians</p>	<p>May 4, 2022</p>
<p>Taylor, Danica "Loralyn," M.D., M.S.</p>	<p>Lecturer, Department of Public Health Sciences, UC Davis Health</p>	<p>Effects of Cannabis Legalization on the Perinatal Use Rates of Cannabis, Tobacco and Alcohol</p>	<p>May 11, 2022</p>
<p>Fiore, Michael, M.D., M.P.H., M.B.A.</p>	<p>Professor and Director, Center for Tobacco Research and Intervention, University of Wisconsin School of Medicine and Public Health</p>	<p>Unfinished Business: The Achievable Goal of Eliminating All Tobacco Product Use in the United States by 2030</p>	<p>May 18, 2022</p>

May, Larissa, M.D., M.S.P.H., M.S.H.S.	Professor and Director, Emergency Department and Outpatient Antibiotic Stewardship, UC Davis Health	Leveraging Implementation Science to Drive Quality Improvement: Expanding Outpatient Antibiotic Stewardship to Community Settings	June 1, 2022
Howe, Rebecca, M.D.	QSCERT-PC Fellow, Department of Family and Community Medicine, Mentored Clinical Research Training Program, UC Davis Health	Engaging Older Adults and Caregivers in Advance Care Planning	June 8, 2022
Glaser, Katherine, M.D., M.P.H.	QSCERT-PC Fellow, Obstetrician and Gynecologist, UC Davis Health	The Impact of Restrictions on Federally Funded Reproductive Health Care	June 15, 2022

Appendix 5: Additional Information

Foundational Planning

As mentioned in the Future Vision section, CHPR collaborated with Raj Kapur, external consultant with the Center for Project Management, to work on foundational planning as the Center prepares for an eventual new and permanent Director to be appointed in 2023. Much of the focus of this work was on CHPR's "What" (e.g., CHPR's services), "How" (i.e., strategy), and "Why" (e.g., role and contributions CHPR makes).

Several dedicated stakeholder interviews took place with key Center affiliates and Center managers to seek what input on matters such as what is working well and needs improvement. On November 29, 2021, the Center hosted a "Charting our Future" event with affiliates and staff to discuss much about the foundational planning work and to jointly create a final "Why" statement.

Awards and Recognition

- CHPR affiliate Dr. Alicia Agnoli, assistant professor of family and community medicine at UC Davis School of Medicine, was honored with a 2022 Top Ten Clinical Research Achievement Award by the Clinical Research Forum. This award is in recognition of her work studying opioid dose tapering which resulted in a paper titled "Association of Dose Tapering with Overdose or Mental Health Crisis Among Patients Prescribed Long-Term Opioids," published in *JAMA* this year, on which she is first author.
- CHPR affiliate Dr. Sergio Aguilar-Gaxiola was appointed by Gov. Gavin Newsom to join other California leaders to promote health and wellness across the state. Dr. Aguilar-Gaxiola is the founder and director of the UC Davis Center for Reducing Health Disparities and a professor in the Department of Internal Medicine at UC Davis Health. The Governor's Advisory Council on Physical Fitness and Mental Well-Being is led by First Partner Jennifer Siebel Newsom and Pro Football Hall of Fame inductee Ronnie Lott, and comprises leaders from health and wellness organizations, youth sports programs, education, the entertainment and fitness industry, and other experts on physical and mental health.
- CHPR affiliate and UC Davis Health Department of Surgery Distinguished Professor and Chair Diana Farmer received a 2022 Harrington Scholar-Innovator Award for her spina bifida work, given by the Harrington Discovery Institute at University Hospitals of Cleveland, Ohio. The award included a grant to support further development of Farmer's "patch" technology, used currently during surgeries to treat spina bifida in utero, for use in treating adult-acquired cord injury.

Appendix 6: Program Members

As of June 30, 2022, CHPR had 125 (primarily faculty) affiliates. Affiliates include faculty from the School of Medicine, the School of Nursing, and other UC Davis schools and departments, including Communication, Psychology, Sociology, Human Ecology, Statistics, Biological and Agricultural Engineering, and the Graduate School of Management. The current mix of Center membership is 74% from the UC Davis School of Medicine, 10% from the UC Davis Betty Irene Moore School of Nursing, 16% from other UC Davis campus schools & colleges or external organizations.

Appendix 8 Table 1. Current CHPR Affiliates

Member Name	Title	Department
Agnoli, Alicia, M.D., M.P.H., M.H.S.	Assistant Professor	Family and Community Medicine
Aguilar-Gaxiola, Sergio, M.D., Ph.D.	Professor	Internal Medicine
Alcalay, Rina E., Ph.D.	Professor Emeritus	Communication
Baker, Dian, Ph.D., A.P.R.N.-B.C., P.N.P.	Professor	Betty Irene Moore School of Nursing
Bakerjian, Debra, Ph.D., R.N., F.N.P.	Clinical Professor	Betty Irene Moore School of Nursing
Bang, Heejung, Ph.D.	Professor	Public Health Sciences
Bell, Robert A., Ph.D.	Professor Emeritus	Communication
Bold, Richard J., M.D.	Professor and Chief	Surgery
Bommer, William, M.D.	Professor	Internal Medicine
Brown, Lisa, M.D., M.A.S.	Assistant Professor	Surgery
Brown, Susan Denise, Ph.D.	Associate Professor	Internal Medicine
Buggs, Shani, Ph.D., M.D.	Assistant Professor	Emergency Medicine
Byrd, Robert, M.D., M.P.H.	Professor	Pediatrics
Chen, Shuai, Ph.D.	Assistant Professor	Public Health Sciences
Cooke, David Tom, M.D.	Associate Professor	Surgery
Cress, Rosemary D., Dr.P.H.	Adjunct Associate Professor	Public Health Sciences
Crossen, Stephanie, M.D., M.P.H.	Assistant Professor	Pediatrics
David, Elizabeth, M.D., F.A.C.S.	Assistant Professor	Surgery
de Leon Siantz, Mary Lou, Ph.D., R.N., F.A.A.N.	Professor Emeritus	Betty Irene Moore School of Nursing

Deeb-Sossa, Natalia, Ph.D.	Associate Professor	Sociology
Derlet, Robert W., M.D.	Professor Emeritus	Emergency Medicine
Drake, Christiana M., Ph.D.	Professor	Statistics
Ducore, Jonathan M., M.D., M.P.H.	Professor	Pediatrics
Elder, Joshua, M.D., M.P.H., M.H.S.	Assistant Professor	Emergency Medicine
Emami-Naeini, Parisa, M.D., M.P.H.	Assistant Professor and Director	Ophthalmology and Uveitis Service
Fable, Jennifer, Sc.D., M.P.H.	Assistant Professor	Human Ecology
Fancher, Tonya, M.D., M.P.H.	Associate Professor	Internal Medicine
Farmer, Diana, L., M.D.	Professor and Chair	Surgery
Fedyk, Mark, Ph.D.	Associate Professor	Betty Irene Moore School of Nursing
Feng, Bo, Ph.D.	Professor	Communication
Fenton, Joshua, M.D., M.P.H.	Professor and Vice Chair	Family and Community Medicine
Fernandez y Garcia, Erik, M.D., M.P.H.	Associate Professor	Pediatrics
Fernando, Leonor Pabon, M.D.	Associate Physician Diplomate	Pathology and Laboratory Medicine
Franks, Peter, M.D.	Professor	Family and Community Medicine
Garcia, Jorge A., M.D., M.S.	Associate Dean and Associate Clinical Professor	Internal Medicine
Garcia, Lorena, M.P.H., Ph.D., F.A.C.P.	Professor	Public Health Sciences
Halfmann, Drew, Ph.D.	Associate Professor	Sociology
Hansen, Robin L., M.D.	Professor	Pediatrics
Hedayati, Nasim, M.D., M.S.	Professor	Surgery
Henry, Stephen G., M.D., M.Sc.	Associate Professor	Internal Medicine
Hinton, Ladson, M.D.	Professor and Director	Psychiatry and Behavioral Sciences
Hirsch, Calvin H., M.D.	Professor Emeritus	Internal Medicine
Hoch, Jeffrey, Ph.D.	Professor and Chief, Associate Director	Public Health Sciences, Center for Healthcare Policy and Research
Holmes, James, M.D., M.P.H.	Professor and Executive Vice Chair	Emergency Medicine
Humphries, Misty, M.D., M.A.S., R.P.V.I., F.A.C.S.	Associate Professor	Surgery

Huo, Meng, Ph.D.	Assistant Professor	Human Ecology
Jerant, Anthony F., M.D.	Professor and Chair, Interim Director	Family and Community Medicine, Center for Healthcare Policy and Research
Joseph, Jill, M.D., Ph.D., M.P.H.	Associate Dean for Research and Professor	Betty Irene Moore School of Nursing
Kair, Laura, M.D., M.A.S.	Associate Professor	Pediatrics
Karlin, Jennifer, M.D., Ph.D.	Assistant Professor	Family and Community Medicine
Kaur, Jagdeep, M.D.	Clinical Associate Professor	Psychiatry and Behavioral Sciences
Kayingo, Gerald, Ph.D., P.A.-C.	Associate Clinical Professor	Betty Irene Moore School of Nursing
Keegan, Theresa, Ph.D., M.S.	Associate Professor	Internal Medicine
Kim, Katherine, M.P.H.	Associate Professor	Betty Irene Moore School of Nursing
Kim, Sunny, Ph.D.	Professor Emeritus	Public Health Sciences
Knapp, Penelope, K. M.D.	Professor Emeritus	Psychiatry, Pediatrics
Ko, Michelle, Ph.D., M.P.H.	Assistant Professor	Public Health Sciences
Koga, Patrick, M., M.D., M.P.H.	Associate Adjunct Professor	Public Health Sciences
Kravitz, Richard L., M.D., M.S.P.H.	Distinguished Professor, Co-Vice Chair of Research	Internal Medicine
Kuppermann, Nathan, M.D., M.P.H.	Distinguished Professor and Chair	Emergency Medicine
Leigh, J. Paul, Ph.D.	Professor	Public Health Sciences
Li, Su-Ting, M.D.	Associate Professor	Pediatrics
Lo, Ming-Cheng, Ph.D.	Professor	Sociology
Magnan, Elizabeth, M.D., Ph.D.	Associate Professor	Family and Community Medicine
Marcin, James P., M.D., M.P.H.	Professor	Pediatrics
Margolis, Helene, Ph.D., M.A.	Adjunct Associate Professor	Internal Medicine
May, Larissa, M.D., M.S.P.H., M.S.H.S.	Associate Professor	Emergency Medicine
McDonald, Craig M., M.D.	Professor and Chair	Physical Medicine and Rehabilitation
Medel-Herrero, Alvaro, Ph.D., M.B.A.	Assistant Project Scientist	Center for Health and the Environment
Melnikow, Joy, M.D., M.P.H.	Professor Emeritus	Family and Community Medicine

Meyers, Frederick J., M.D.	Professor	Internal Medicine and Pathology
Midboe, Amanda, Ph.D.	Adjunct Associate Professor	Public Health Sciences
Miglioretti, Diana, Ph.D.	Professor and Chief	Public Health Sciences
Miller, Lisa M.S., Ph.D.	Professor	Human Ecology
Moulin, Aimee, M.D.	Associate Clinical Professor	Emergency Medicine
Mueller, Hans-Georg, M.D., Ph.D.	Distinguished Professor and Chair	Statistics
Murray-Garcia, Jann, M.D., M.P.H.	Associate Clinical Professor	Betty Irene Moore School of Nursing
Nesbitt, Thomas S., M.D., M.P.H.	Professor	Family and Community Medicine
Nguyen, Hien, M.D., M.A.S.	Associate Clinical Professor	Internal Medicine
Niendam, Tara, Ph.D.	Associate Professor	Psychiatry and Behavioral Sciences
Nishijima, Daniel, M.D.	Associate Professor	Emergency Medicine
Nuno, Miriam, Ph.D.	Associate Professor	Public Health Sciences
Palmer, Donald A., Ph.D.	Professor	Graduate School of Management
Pan, Richard, M.D., M.P.H.	Pediatrician, Senator	California State Senator, District 6
Park, Jeanny K., M.D.	Associate Clinical Professor	Pediatrics
Prakash, Suma, M.D., M.Sc., F.R.C.P.C.	Associate Physician Diplomate	Internal Medicine
Raingruber, Bonnie, R.N., Ph.D.	Adjunct Professor	Internal Medicine
Robbins, John, M.D., M.H.S.	Professor Emeritus	Internal Medicine
Rocke, David M., Ph.D.	Distinguished Professor	Public Health Sciences
Romano, Patrick S., M.D., M.P.H.	Professor	Internal Medicine
Rosenthal, Jennifer, M.D.	Associate Professor	Pediatrics
Roussas, George, Ph.D.	Distinguished Professor Emeritus	Statistics
Sandrock, Christian, M.D., M.P.H., F.C.C.P.	Professor	Internal Medicine
Savill, Mark, Ph.D.	Adjunct Assistant Professor	Psychiatry and Behavioral Sciences
Schenker, Marc B., M.D., M.P.H.	Distinguished Professor	Public Health Sciences
Schweitzer, Julie, M.D.	Professor	Psychiatry and Behavioral Sciences

Shaikh, Ulfat, M.D., M.P.H.	Professor	Pediatrics
Sherman, Jeffrey, Ph.D.	Professor	Psychology
Siefkes, Heather, M.D., M.S.C.I.	Assistant Professor	Pediatrics
Siegel, Elena O., Ph.D., R.M	Associate Professor	Betty Irene Moore School of Nursing
Singh, Naileshni, M.D.	Associate Clinical Professor	Anesthesiology and Pain Medicine
Solomon, Marjorie, Ph.D., M.B.A.	Professor	Clinical Psychology
Stahmer, Aubyn, Ph.D.	Professor	Psychiatry and Behavioral Sciences
Stocking, Jacqueline, Ph.D., M.B.A., M.S.N., R.N., N.E.A.-B.C.	Assistant Adjunct Professor	Internal Medicine
Styne, Dennis M., M.D.	Professor	Pediatrics
Tabnak, Farzaneh, Ph.D.	Assistant CE Specialist in Agriculture Safety and Health	Biological and Agricultural Engineering
Tancredi, Daniel J., Ph.D.	Professor	Pediatrics
Taylor, Laramie, Ph.D.	Professor	Communication
Tong, Elisa, M.D., M.A.	Professor	Internal Medicine
Tseregounis, Iraklis Erik, Ph.D.	Assistant Project Scientist	Internal Medicine
Tu, Shin-Ping, M.D., M.P.H., F.A.C.P.	Chief and Professor	Internal Medicine
Urquiza, Anthony J., Ph.D.	Clinical Professor	Pediatrics
Utter, Garth H., M.D.	Professor in Residence	Surgery
Van de Water, Judith, Ph.D.	Professor in Residence	Internal Medicine
Waetjen, L. Elaine, M.D.	Professor	Obstetrics and Gynecology
Wang, Jane-Ling, Ph.D.	Distinguished Professor	Statistics
White, Richard H., M.D.	Professor	Internal Medicine
Wiedeman, Jean, M.D., Ph.D.	Associate Professor	Pediatrics
Wilkes, Michael S., M.D., Ph.D.	Professor	Internal Medicine
Young, Heather, Ph.D., R.N., G.N.P., F.A.A.N.	Professor and Dean Emeritus	Betty Irene Moore School of Nursing
Zane, Nolan, Ph.D.	Professor Emeritus	Psychology

Appendix 7: CHPR Advisory Boards

Appendix 9 Table 1. CHPR Internal Advisory Board Members

Board Member	Title
Applegate II, Richard, M.D.	Professor and Chair UC Davis Health Department of Anesthesiology and Pain Medicine
Bales, Karen, Ph.D.	Professor UC Davis Department of Psychology
Farmer, Diana, M.D.	Chair and Pearl Stamp Stewart Professor UC Davis Health Department of Surgery
Ikemoto, Lisa, J.D., LL.M.	Martin Luther King Jr. Professor of Law UC Davis School of Law Bioethics Associate UC Davis Health Bioethics Program
Marcin, James, M.D., M.P.H.	Director UC Davis Center for Health and Technology Vice Chair for Pediatric Clinical Research and Professor UC Davis Health Department of Pediatrics
Tu, Shin-Ping, M.D., M.P.H.	Chief UC Davis Health Division of General Medicine, Geriatrics, and Bioethics
Wun, Theodore, M.D., F.A.C.P.	Interim Vice Dean for Research UC Davis School of Medicine Associated Dean for Research Director UC Davis Clinical and Transitional Science Center Chief Division of Hematology and Oncology

Appendix 9 Table 2. CHPR External Advisory Board Members

Board Member	Title
Carey, Timothy, M.D., M.P.H.	Professor Department of Medicine and Social Medicine University of North Carolina
Dangberg, Lori	Vice President Alliance of Catholic Health Care
Kiefe, Catrina, Ph.D., M.D.	Professor Population and Quantitative Health Sciences University of Massachusetts Medical School
Morris, Arden, M.D., M.P.H., F.A.C.S.	Professor of Surgery Stanford University Medical Center
Sales, Anne, Ph.D., R.N.	Professor Department of Family and Community Medicine University of Missouri Sinclair School of Nursing University of Missouri School of Medicine
Yu, Ed	Chairman, Vascular Cures Advancing Innovation for a Healthier Future

Appendix 8: Diversity, Equity & Inclusion

- CHPR continued its Center-wide DEI initiative of providing a space dedicated to learning about, discussing, and acting upon anti-racism. Led by Melissa Gosdin, PhD, and Bethney Bonilla, MA, the anti-racism group continues to meet monthly and is open to all CHPR staff and affiliated faculty.
- After consulting with staff from the UC Davis Diversity, Equity, and Inclusion office (DEI), CHPR established a schedule of unit-wide training sessions to be led by DEI staff. The first session, “Understanding Diversity and Social Justice,” hosted by Eric Sanchez, Associate Director of the DEI Education Program, was held in June 2022. [See also the Education Highlights section]
- Associate Director Hoch and colleagues published “[How Economic Decision Modeling Can Facilitate Health Equity](#)” in the *AMA Journal of Ethics*. The article offers examples of how economic modeling, through its design and use, can motivate inquiry and research into health equity. Using examples from some of CHPR’s recent research projects, the authors describe how modeling can be used to study reduction of health inequity, and thereby motivate different types of investments into rectifying such inequities. The article also considers how equity fits into cost-effectiveness frameworks and how economic modeling can broaden the range of options for improving health equity, among other considerations. Logan Trenaman, Ph.D., who was a postdoctoral fellow with CHPR when this work was carried out, Shannon Hearney, M.P.H., a Ph.D. student in the Graduate Group in Public Health Sciences (GGPHS), and Carolyn Dewa, Ph.D., M.P.H., a professor in PHS and the UC Davis Department of Psychiatry and Behavioral Sciences, co-authored this paper with Professor Hoch.
- Dr. Gosdin continues to mentor graduate and undergraduate students of underrepresented groups, for example, Ren Bruguera, a graduate student in Public Health Sciences, on ongoing qualitative projects.
- Dr. Gosdin worked served as a Youth Community Scientist Academy mentor for the Health Equity Resources and Outreach ([HERO](#)) Program, UC Davis CTSC. This is a program designed to introduce underprivileged high school students to research methods and careers in health research.
- CHPR faculty affiliate and medical director of Express Care at UC Davis Health, Joshua Elder, was awarded funding for UC Davis Health’s Digital Health Equity Program to help establish a regional digital public health platform in the Sacramento area and northern California region. Along with support from 16 regional stakeholders, Elder seeks to improve access to and continuity of care for vulnerable populations through this project. The project expands UC Davis Health’s ability to partner and coordinate with federally qualified health centers to provide more services and simplify access to health care.

Appendix 9: Research Highlights for the OR Annual Report

- Awarded a 5-year grant to support the Healthy Living Clinic Initiative, started August 1, 2021 (Co-PIs: Hoch, Backman and Kohatsu)
- CHPR's designation as a UC Davis Organized Research Unit (ORU) was renewed for another 5 years
- CHPR faculty and staff continued studies of risks associated with tapering opioid dosages too quickly for some patients, publishing their results in [*JAMA*](#) and [*JAMA Network Open*](#).
- CHPR staff provided support for the Pandemic Preparedness Workshop co-hosted by Healthy Davis Together and the Office of Grand Challenges in April; Workshop results are serving as a foundation for further development of university-specific preparedness and response plans by the newly established UC Davis Institute for Pandemic Intelligence
- The [Cal Long Term Care Compare website](#), an effort to help drive transparency, accountability, and improvement in long-term care for all Californians and for which the CHPR Healthcare Quality and Safety Research team received an award from [Cal Hospital Compare](#) to report on nursing home quality metrics in California, was launched.