Fall 2022



# Our Mission

To develop and evaluate interventions and implementation strategies to improve health care delivery. Veteran engagement in health care, and Veterans' health and functioning in their communities

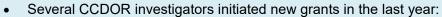
*Director:* Steven Fu, MD, MSCE *Deputy Director:* Nina Sayer, PhD LP *Associate Directors:* Brent Taylor, PhD and Shannon Kehle-Forbes, PhD LP



# Connection

## **CCDOR Highlights**

- Hildi Hagedorn's ADaPT-OUD study paper in JGIM was selected by the JGIM Quality Improvement Science/ Implementation Science (QIS/IS) Working Group as one of the best QIS/IS articles of the past few years.
- Orly Vardeny contributed to the 2022 AHA/ACC/HFSA
  Guideline for the Management of Heart Failure. This
  guideline was published in the Journal of American College of Cardiology and the American Heart Association
  "Circulation" journal.
  - Michele Spoont is a consultant for the NCPTSD's (Credit: Keith Langsdorf Minneapolis VA Public PTSD Mentoring Program to develop processes to address inequity in different aspects of PTSD specialty treatment (started Jan. 2022). In May 2022, she gave a presentation entitled, "Thinking about Inequity in Mental Health Treatment for PTSD: What do we do now?" The first equity consultation to a PTSD Clinical Team is currently underway.



- Princess Ackland: VA HSR&D IIR will examine multi-level factors impacting the integration of evidence-based psychotherapies for depression and inform an evidence-based intervention framework.
- Adams Dudley: VA Office of Mental Health and Suicide Prevention funding to develop automated algorithms to identify risk factors for suicide (e.g. access to firearms, substance use) from VA electronic medical records.
- Steve Fu: NIMDH funding to conduct a smoking cessation intervention project as part of the new Center for Chronic Disease Reduction and Equity Promotion Across Minnesota (C2DREAM) which is one of nine initiatives nationwide to receive this funding.
- Areef Ishani: VA CSP will determine if metoprolol succinate (a dialyzable, beta-1 selective beta blocker) improves cardiovascular outcome vs. carvedilol in hemodyalisis patients, and which practices best support adoption and sustainability.
- Melissa Polusny: Minneapolis VA was a site for the VA ORD DEI Summer Research Program which introduced Veteran and militaryconnected students to mental health research and the possibility of future careers in VA.
- Nina Sayer: VA HSR&D SDR to describe the health and functional outcomes of suicide exposure among post-9/11 Veterans transitioning to civilian life.
- **Jillian Fish** won top prize at 2022 Frank Conference (\$10,000 Research Prize awarded annually by the University of Florida Center for Public Interest Communications) for her research on Narratives for Native People.
- Adrianne Baldomero received the 2021-2022 Outstanding Educator in Specialty Medicine award from the Minneapolis VA.
- CCDOR alumni continue their success. **Kathleen Carlson** was awarded the Oregon Health and Science University Faculty Excellence and Innovation Award for her innovative research on gun violence prevention.

# In this Issue

- Highlights
- Suicide Prevention
- Embarking on Diversity, Equity and Inclusion
- Minneapolis VA Evidence-Synthesis Program
- Publication Highlights

### Calendar

Implementation Science Journal Club—4th Tuesday of every month

Medicine Grand Rounds
Timothy Wilt—Dec 9
Elizabeth Goldsmith—Feb 3
Elisheva Danan—Mar 3
Susan Diem—Mar 31
Howard Fink—Jun 2

Medicine Journal Club
Kris Ensrud—Dec 1
Elisheva Danan—Jan 5
Brent Taylor—Feb 2
Diana Burgess—Mar 2
Hildi Hagedorn—Mar 16
Timothy Wilt—Apr 6
Wendy Miller—May 4
Elizabeth Goldsmith—Jun 1



### Suicide Prevention Work Within CCDOR

deaths. In 2018, Veterans accounted for 14% the 48,344 and assess the contribution of risk factors mentioned in suicides that year. Suicide prevention is a critical priority clinical text to the predictive power of rapidly implenationwide. Within CCDOR, investigators and staff have mentable algorithms estimating suicide risk. Dr. Dudley joined the national community to tackle this public health and his team are also working closely with REACH VET, problem head-on through research and dissemination.

Synthesis Program (ESP) systematic review of the ef- ment and supplement current clinical strategies to identifectiveness and harms of community-based or popula- fy at-risk Veterans. tion-level strategies to prevent suicide. The review adof Crisis Intervention and Suicide Prevention this year.

employment instability, and access to lethal means in the for intervention.

Suicide is among the leading causes of premature last six months of life of suicide decedents and controls; a VA initiative to identify Veterans who may clinically Dr. Shahnaz Sultan led a Minneapolis VA Evidence- benefit from enhanced care, outreach and risk assess-

Dr. Nina Sayer, CCDOR Deputy Director, has initiated dressed two main questions: 1) What at the effects of her VA HSR&D Service-Directed Research (SDR) propopulation and community-based prevention interven- ject titled, "Exposure to Suicide Among Post 9/11 Vetertions on suicide attempts and suicide deaths and 2) ans: Prevalence, Correlates and Treatment Needs." This What are the potential unintended consequences of explanatory sequential mixed-methods study will provide these interventions? They found that select community- foundational information on an understudied risk factor based interventions may reduce suicides. These are in- for suicide in a cohort of Veterans at increased suicide terventions that reduce access to lethal means, imple- risk – post 9/11 Veterans within six years following miliment organizational policies in workplace settings, and tary separation. It will provide information to inform suiscreen for depression in the community. Authors note cide postvention strategies that target the population of that the existing literature was challenging to synthesize suicide bereaved post-9/11 Veterans as well as those for several reasons including the variability in reporting of targeting women and American Indian/Alaskan Native suicide outcome and details of the intervention. The re- (Al/AN) Veterans. Specifically, the study aims to 1) evalsults of this review were published in Crisis: The Journal uate differences in the prevalence of posttraumatic stress disorder (PTSD), prolonged grief disorder (PGD), Variability in reporting risk factors led **Dr. Adams Dud-** and in suicidal ideation, attempts and planning among ley to partner with the Office of Mental Health and Sui- Veterans exposed to suicide compared with those excide Prevention (OMHSP) to develop natural language posed to other causes of sudden death and with unexprocessing (NLP) algorithms to find some life events posed Veterans. The study will also evaluate differences (e.g., homelessness) in notes, but has not yet addressed by sex and race; 2) identify modifiable moderating facsocial or family conflict or employment instability or which tors for the association between suicide exposure and patients have access to lethal means. Existing scientific negative outcomes and modifiable moderating factors for ontologies do not capture many of the plain language the association between suicide or sudden death expoways patients talk about and providers record life events. sure and negative outcomes relative to those with neither Similarly, there is no ontology for plain English terms for exposure; 3) describe treatment experiences, interests, lethal means. We will create these ontologies. As a re- reported suicide attempts, and patterns of VA service sult, Dr. Dudley's VA HSR&D SDR, "Using Artificial Intel- utilization among those exposed to a suicide death comligence to Predict Suicide," aims to develop terminolo- pared to Veterans exposed to other sudden deaths and gies and ontologies of conflict within social or family rela- to unexposed Veterans; and 4) contextualize quantitative tionships, employment instability, and access to lethal findings through interviews with a purposive sample of means that facilitate automated extraction of these con- Veterans exposed to suicide. The interviews will focus on cepts from clinical notes; determine the frequency of modifiable factors at each level of the socio-ecological mention of conflict within social or family relationships, model of suicide prevention to better understand targets



## Broadening the Path of Diversity, Equity and Inclusion

employees and working environment, CCDOR began pathways for project staff by 1) developing communicathree DEI workgroups this summer. Each group has es- tion guides for VA-funded staff and PIs regarding persontablished goals.

lead the Diversity Workgroup, and members include guides are currently under development—with the goal Rebecca Brown, Collin Calvert, Adams Dudley, Steve of having final guides in Spring 2023. The mentoring pro-Fu, Sierra Hennessy, Adam Kaplan and Sarah Norman. gram exploration is planned for 2023. The Workgroup's overall objective is to continue and ex-CCDOR's DEI statement reads:

The Center for Care Delivery and Outcomes Research (CCDOR) strives to foster an inclusive work environment that honors its employees' diverse identities, perspectives, backgrounds, values, and cultural practices. We believe that a diverse workforce enriches our research teams and the quality of our research to improve health and healthcare delivery for all. CCDOR is deeply committed to just treatment, equitable opportunity, and cultivating a community based on respect for everyone.

The **Equity Workgroup** is co-led by Tam Do and Lizzy Goldsmith. Members include Maylen Anthony, Patrick Hammett, Erin Linden, Brittany Majeski, Brent Taylor, and Timothy Wilt. Last December, CCDOR conducted a needs assessment that covered several areas including DEI. CCDOR employees expressed a need for more equitable opportunities specifically for project staff. As such, the Equity Workgroup's overall objective is to improve equity for CCDOR project staff (research assistants, study coordinators, and project managers) through transparency and shared knowledge. To move CCDOR toward this objective, the Workgroup's goals for the next

To enhance CCDOR's community with respect to its year are to educate CCDOR on career development leadership, membership, and 2022-2023 alized career development for staff, and 2) exploring CCDOR mentoring options for project staff based on per-Mariah Branson and Alexandra Gowdy-Jaehnig co- sonalized career development plans. Communication

Tracy Sides and Alex Thompson co-lead the **Inclusion** pand CCDOR's efforts to recruit and retain staff, investi- Workgroup. Members include Erin Amundson, Malloree gators, fellows, and Without Compensation (WOC) staff Argust, Allison Gustavson, Jill Mahal-Lichty, Wendy Milfrom diverse backgrounds. The Workgroup has four ler, and Siamak Noorbaloochi. The Workgroup's goal is goals: 1) develop CCDOR's diversity, equity, and inclu- to co-design and implement processes and actions to sion statement, 2) develop a plan for CCDOR to recruit increase community, given the "new normal" hybrid workand hire more diverse job candidates, 3) identify and pro-place environment. After building a common base of vide diversity educational opportunities and resources for knowledge and soliciting input on workplace values from CCDOR employees, and 4) ensure CCDOR effectively across CCDOR, the Inclusion Workgroup has begun communicates and broadly disseminates its commitment planning and launching multiple activities, including: deto diversity. To date, the Diversity Workgroup has en- veloping a "buddy system" for new employees and felgaged CCDOR stakeholders in the creation of a DEI lows; hosting a variety of virtual and in-person, drop-in statement (which is now available for the Center's use) social activities - walk breaks, lunches, coffee breaks; and has started a literature review to identify strategies and launching a lightly moderated MS Teams @ CCDOR to recruit and hire more diverse job candidates. Community channel to create a virtual 'common space' in CCDOR's work environment that supports informal communication and connections across the center. The Teams channel is in 'soft launch' through Thanksgiving with the goal of a Center-wide launch in early December.

> CCDORians have also helped to spread DEI efforts beyond VA. Dr. Shahnaz Sultan was named the Vice Chair of the newly-created DEI Council in the Department of Medicine at the University of Minnesota. Along with Associate Vice Chair Dr. Cuong Pham, Dr. Sultan is helping to lead the charge to build community and promote DEI-related work within the Department of Medicine. Faculty and staff from each of the Divisions have been selected to serve on the Council. Drs. Sultan and Pham (along with collaborators from other departments) recently receiving funding from the Office of DEI to better understand how DEI is valued in the promotion and tenure process. Initial work has focused on a systematic review of the published literature to identify modifications to the Promotion and Tenure criteria as well as a review of statements from a range of medical institutions to identify best practices or innovations.



## **Minneapolis VA Evidence-Synthesis Program**

Drs. Timothy Wilt and Wei (Denise) Duan-Porter tematic review. BMJ Open, 12(8):e061245. doi: 10.1136/ have led the Minneapolis VA ESP Program through another productive year. The team has led several reviews covering critical topics including COVID-19 pandemic and NA, Murdoch M., MacDonald R, & Sultan S. (2022). Poplong-term care. These and past reviews have led to publications and additional manuscripts in-progress in the past year.

#### Completed reports included:

- Evidence Compendium: Long-term Effects of SARS-CoV-2 Infection (COVID-19) on Functional Health Status and Health-related Quality of Life in Community-dwelling Adults
- Implementation of Psychotherapies and Mindfulnessbased Stress Reduction for Chronic Pain and Chronic Mental Health Conditions
- Effects of Nurse Staffing on Processes of Care and Resident Outcomes in Nursing Homes: A Systematic Review
- Prognostic Tools and Interventions to Prevent and Treat Diabetic Foot Ulcers: A Review of Reviews

Associated publications in the last year included:

Greer N, Bart B, Billington CJ, Diem SJ, Ensrud KE, Kaka A, Klein M, Melzer AC, Reule S, Shaukat A, Sheets K, Starks J, Vardeny O, McKenzie L, Stroebel B, Macdonald R, Sowerby K, Duan-Porter W, Wilt TJ. (2022). COVID-19 postacute care major organ damage: A sys-

bmjopen-2022-061245.

- Linskens EJ, Venables NC, Gustavson AM, Sayer ulation- and community-based interventions to prevent suicide: A systematic review. Crisis: The Journal of Crisis Intervention and Suicide Prevention.
- Duan-Porter, W., Ullman, K., Majeski, B., Miake-Lye, I., Diem, S., & Wilt, T. J. (2021). Care coordination models and tools—Systematic review and key informant interviews. Journal of General Internal Medicine, 1-13.

The ESP team is also working on the following reports:

- Evidence Brief: Employment, Education, and Continuing Care Outcomes Among Individuals Following COVID-19
- Neuroimaging and Neurophysiologic Biomarkers for Mental Health: An Evidence Map
- Hypofractionation Radiation Therapy for Definitive Treatment of Selected Cancers: A Comparative Effectiveness review
- Non-Surgical Therapies versus Surgery for Early-Stage Non-Small Cell Lung Cancer



## **Publication Highlights**

Hagedorn HJ, Gustavson AM, Ackland PE, Bangerter A, Bounthavong M, Clothier B, Harris AHS, Kenny ME, Noorbaloochi S, Salameh HA, Gordon AJ. (2021). Advancing pharmacological treatments for opioid use disorder (ADaPT-OUD): An implementation trial in eight Veterans Health Administration facilities. Journal of General Internal Medicine doi:10.1007/ Therapy. 104123. s11606-021-07274-7

Burgess DJ, Bair MJ, Matthias MS, Taylor BC, Vallone D, Taylor SL. (2021). Shifting the National Consciousness about Pain Treatment: The Critical Need for a National Public Education Campaign. Journal of Pain 22, 1129-1133. doi:10.1016/ j.jpain.2021.03.156

Baldomero AK, Kunisaki KM, Wendt CH, Bangerter A, Nelson D, Hagedorn H, Wendt CH, Dudley RA. (2022). Beyond Access: Factors Associated with Spirometry Underutilization Among Patients With a Diagnosis of COPD in Urban Tertiary Care Centers. Chronic Obstructive Pulmonary Diseases. doi:10.15326/jcopdf.2022.0303

Ensrud KE, Lui LY, Crandall CJ, Orwoll ES, Langsetmo L, Schousboe JT, Fink HA, Lane NE, Kado DM, Cauley JA, Stefanick ML, Cawthon PM. (2022). Repeat Bone Mineral Density Screening Measurement and Fracture Prediction in Older Men: A Prospective Cohort Study. The Journal of Clinical Endocrinology and Metabolism, 107 (9):e3877-e3886.

Linskens EJ, Venables NC, Gustavson AM, Sayer NA, Murdoch M, MacDonald R, Ullman KE, McKenzie LG, Wilt TJ, Sultan S. (2022). Population- and community-based interventions to prevent suicide: A systematic review. Crisis: The Journal of Crisis Intervention and Suicide Prevention.

in cardiovascular disease: Time to high risk populations for lung cancer. move the needle. European Heart BMJ (Clinical Research Ed.). 2022 Journal.

Kehle-Forbes SM, Ackland PE, Meis LA, Polusny MA, Kehle-Forbes Spoont MR, Meis LA, Orazem RJ, SM, Erbes CR, O'Dougherty M, Erick-Lyon A, Valenstein-Mah HR, Schnurr son EP, Orazem RJ, Burmeister LB, PP, Zickmund SL, Foa EB, Chard KM. Spoont MR. (2022). Making sense of (2022). Divergent experiences of US poor adherence in PTSD treatment veterans who did and did not complete from the perspectives of veterans and trauma-focused therapies for PTSD: A their therapists. Psychological Trauma: national qualitative study of treatment Theory, Research, Practice, and Polidropout. Behaviour Research and cy.

Spoont M, Chanfreau C, Canelo I, pact of different cover letter content Krebs EE, Yano EM. (2022). The Re- and incentives on non-response bias lationship Between Sexual Assault in a sample of Veterans applying for History and Cervical Cancer Screening Department of Veterans Affairs disabil-Completion Among Women Veterans ity benefits: A randomized, 3X2X2 facin the Veterans Health Administration. torial trial. BMC Medical Research Journal of Women's Health.

Hammett PJ, Eliacin J, Makris UE, Martin-Wagar CA, Marguardt CA, Liu vention for Black Veterans with Chron- cine. ic Pain. The Journal of Pain.

B, Miake-Lye I, Diem S, Wilt TJ. Care Kehle-Forbes S, Stirman SW, Sayer Coordination Models and Tools— Interviews. Journal of General Internal Veterans Affairs psychotherapists prior Medicine. 2021 Oct 26:1-3.

Gustavson AM, Eaton TL, Schapira RM, Iwashyna TJ, Adly M, Purnell A. Approaches to long COVID care: The Veterans Health Administration experience in 2021. BMJ Military Health. 2022 Jul 1.

Jensen AC, Amundson EC, Brown C, Cochrane J, Daly D, Glenn R, Hope K, Hawkins J, Oakley JW, Sacra E, Walker J. "Not all groups come together, but this one just clicks": Ten Tips for Sustaining an Engagement Panel. Journal of General Internal Medicine. 2022 Apr;37(1):80-2.

Vardeny O. (2022). Influenza vaccine Melzer AC, Triplette M. Screening Mar 30; 376:o666.

Murdoch M, Clothier BA, Beebe TJ, Danan ER, Brunner J, Bergman A, Bangerter AK, Noorbaloochi S. Im-Methodology. 2022 Dec;22(1):1-3.

Allen KD, Kerns RD, Heapy A, Eliza- Y, Arbisi PA, Erbes CR, Polusny MA. beth GS, Meis LA, Taylor BC, (2022). Inconsistent Reporting of Ad-Saenger M, Cross LJ. (2022). An Anal- verse Life Events Is Predicted by Curysis of the Role of Mental Health in a rent Internalizing Distress Among Mili-Randomized Trial of a Walking Inter- tary Service Members. Military Medi-

Rosen CS, Kaplan AN, Nelson DB, La Duan-Porter W, Ullman K, Majeski Bash H, Chard KM, Eftekhari A, NA. (2022). Implementation context Systematic Review and Key Informant and burnout among Department of to and during the COVID-19 pandemic. Journal of Affective Disorders.

> Greer N, Bart B, Billington CJ, Diem SJ, Ensrud KE, Kaka A, Klein M, **Melzer AC**, Reule S, Shaukat A, Sheets K, Starks J, **Vardeny O**, McKenzie L, Stroebel B, Macdonald R, Sowerby K, Duan-Porter W, Wilt TJ. COVID-19 postacute care major organ damage: A systematic review. BMJ Open. 2022 Aug 24;12(8):e061245. doi:10.1136/bmjopen-2022-061245.

> Shepherd-Banigan M, Wells Falkovic M. Ackland PE. Swinkels C. Dedert E, Ruffin R, Van Houtven CH, Calhoun PS, Edelman D, Weidenbacher HJ, Shapiro A, Glynn S. Adapting a family-involved intervention to increase initiation and completion of evidenced-based psychotherapy for posttraumatic stress disorder. SSM Mental Health. 2022 Dec 1; 2.



**CCDOR** was founded in 1998 and is currently comprised of 30 Core Investigators (includes clinically-active physicians, biostatisticians, epidemiologists, behavioral scientists, and clinical psychologists), 11 Affiliate Investigators, 10 fellows, and 80+ Research and Administrative Support Staff. It supports 49 funded studies and several research training programs for post-doctoral level Investigators.

#### Center of Innovation

In 2013, CCDOR became a VA Center of Innovation (COIN) and was refunded in 2018. The COIN program rewards research innovations and partnerships to ensure that research has the greatest possible impact on VHA policies, healthcare practices, and health outcomes for Veterans. COINs emphasize detailed strategic planning and collaboration in one or more focused areas of research, partnerships with VA clinical and/or operations leaders, and accelerated movement toward implementation and impact.

#### **CCDOR's Research Priorities**

- Trauma Recovery
- Chronic Pain and Opioid Harms Reduction

#### **CCDOR's Cores**

- Administrative Core
- Evidence Synthesis Core
- Implementation Core
- Mentoring and Training Core
- Statistics and Data Management Core
- Veteran Engagement Core

#### **Operational Partners**

- National Center for Health Promotion and Disease Prevention (NCP)
- National Center for PTSD
- Office of Mental Health and Suicide Prevention
- VA Midwest Health Care Network, VISN 23
- VA Primary Care Program Office
- VHA Pain Management (Program Office)

#### For more information

Minneapolis VA Healthcare System One Veterans Drive (152) Minneapolis, MN 55417 Phone: 612-467-1979 Fax: 612-727-5699

Email: visn23ccdor@va.gov Web: https://www.ccdor.research.va.gov/





### **U.S. Department of Veterans Affairs**

Veterans Health Administration