

HEALing Communities Study

Equity in Access: Naloxone, MOUD and COVID-19 Services

January 24, 2022

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Dawn A. Goddard-Eckrich

Leadership

Dr. Dawn Goddard-Eckrich is the Associate Director of SIG.

Bio

Dr. Dawn Goddard-Eckrich is an Associate Director of the Social Intervention Group and Associate Research Scientist with over 17 years experience leading the successful implementation of five NIH funded studies of behavioral interventions: Eban, WORTH, WINGS, PACT, and E-WORTH. Her experience includes developing and implementing programs and interventions to address the health disparities affecting underserved populations in NIDA funded clinical trials. Dr. Goddard-Eckrich has extensive experience in primary data collection, including expertise in recruitment and retention of marginalized populations, project management, mixed methods research, fidelity measures and development of various study protocols.

Dr. Goddard-Eckrich is also the Director of the Community Collaborative Research Network (CCRN), which is a collaborative partnership comprised of representatives from communitybased organizations, health service agencies, government organizations, and SIG. The CCRN's focus includes research, training, education and advocacy primarily among justice-involved individuals and communities disproportionately affected by legal involvement in NYC.



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HEALing Communities Study

Overview of the HEALing Communities Study (HCS





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HEALing Communities Study: Funded in April 2019, HCS is the NIH's largest

study funded for community-based research (\$350 million)

Multisite parallel-arm cluster randomized waitlist-controlled trial evaluating the impact of Communities That Heal (CTH) intervention. Implemented in 4 states, 67 communities **Goal:** Reduce Opioid-Related Overdose Deaths by 40% in 3 years

Secondary outcomes:

- Increase naloxone distribution
- Increase access/utilization of MOUD
- Decrease high risk opioid prescribing
- Increase number of People with OUD who receive MOU
- Increase length of time in treatment
- HIV and HCV







Partnerships: Universities

Columbia University

- School of Social Work
- Psychiatry/New York State Psychiatric Institute
- Mailman School of Public Health
- Data Science Institute
- Columbia University Information
- Technology (CUIT)

- Albert Einstein College of
- Medicine/Montefiore Medical Center
- City University of New York
- Weill Cornell Medical College
- New York University School of Medicine
- University of Miami
- Yale University

HCS Communities

	Overall	KY	MA	NY	ОН
Total HCS community population	10,144,261	1,823,027	875,086	2,357,192	5,088,956
Opioid overdose death rate (per 100,000)	33.4	38.2	40.6	28.3	27.5
Number of communities by rural vs urban	29 rural 38 urban	7 rural 9 urban	5 rural 11 urban	8 rural 8 urban	9 rural 10 urban
Medicaid expansion?		Yes	Yes	Yes	Yes

20% Black & Latinx



Community Engagement through Coalitions

- Community coalitions in each county are charged with deploying EBPs to reduce overdose deaths
- Membership consists of policymakers, health and substance use providers, people with lived experience or family members who lost loved ones to overdose, county governmental officials, law enforcement and criminal justice, prevention providers, business leaders (25-40 people total)
- Coalitions are supported by the community's local government (Health or Mental Health Commissioners), other local politicians and policy makers
- Coalitions required to use a data-driven approach to select and implement EBPs



Communities that HEAL Intervention (CTH)

- At minimum, coalitions are required to focus on four EBPs (but can choose more):
 - Expand overdose education and distribution of Naloxone (an injectable or oral drug that reverses overdose)
 - Improve access to Medication for Opioid Use Disorders (MOUD)
 - Safer Opioid Prescribing for acute pain across all healthcare systems
 - Reduce stigma against Naloxone use, people who use drugs, and those who receive drug treatment and their families



Community-based Participatory Research (CBPR)

- Sharing power between the researchers and community: fosters co-learning and co-designing plans and solutions
- **Data-driven implementation**: Up-to-date data to inform the definition and landscape of the problem and the solution. Improve data systems and rapid access to local data and state data on overdose deaths
- **Sustainability**: includes a plan for long-term sustainability prior to the completion of the research



Engagement Across Multiple Sectors

Health Care	 EMS Health Departments Emergency Depts. Pharmacists Hospitals Primary/Specialty Care
Criminal Justice	 Pre-trial programs, Drug Courts Correctional facilities, Police Departments Probation/parole, Halfway Houses
Behavioral Health	 SUD Treatment Social Services Mental Health Treatment

Winhusen, T., Walley, A., Fanucchi, L.C., Hunt, T.... Chandler, R., 2020.



Communication Campaign

• Objectives:

- Increase demand for and access to naloxone
- Increase prescriptions and access to MOUD
- Reduce stigma against people who use drugs, Naloxone, MOUD, recovery, and encourage family and friends to support MOUD treatment
 - Messaging included: Opioid use disorder is a medical disease, people with OUD deserve the best medical treatment, and anyone can develop OUD

Target Audience:

- People with lived experience and their loved ones
- Key opinion leaders
- Healthcare and other providers
- HCS communities



Addressing Equity?





- The term "equity" refers to fairness and justice and is distinguished from equality: Whereas equality means providing the same to all, equity means recognizing that we do not all start from the same place and must acknowledge and make adjustments to imbalances.
- The process is ongoing, requiring us to identify and overcome intentional and unintentional barriers arising from bias or systemic structures.



Confronting Inequity to Achieve Equity: Black Justice & Equity Workgroup

- Providing data, esp. data that "tell a story" about inequities
- Serve as a resource: Training and activities that promote knowledge, skills, and self-awareness
 - Also tries to redress structural and institutional forms of racism (e.g., white supremacy culture and practices)
 - Within coalitions
 - Within research team
- Promoting/supporting for greater representation of BIPOC among coalitions, CAB, and research team





Background

 The COVID-19 pandemic exacerbated existing racial and ethnic disparities in opioid overdose **death rates.** Recent data suggests that black and other minority populations are disproportionately vulnerable to opioid overdose and COVID-19 mortality particularly in urban localities.



Death and Non-fatal Overdose by Race/Ethnicity 2017-2019

Year	Race	Opioid Deaths /100,000	% chg from prior year	Drug Deaths /100,000	% chg from prior year	Nonfatal Drug OD/100,000	% chg from prior year	Nonfatal Opioid OD/100,000	% chg from prior year
2017		33.7		35.1					
2018	Hispanic	31.0	-8%	35.0	0%	341.9		163.6	
2019		31.0	0%	35.5	1%	305.6	-11%	125.8	-23%
2017	Non-	20.8		25.6					
2018	Hispanic	21.4	3%	30.2	18%	388.4		114.1	
2019	Black	22.2	3%	30.5	1%	437.8	13%	125.0	10%
2017	Non-	14.2		16.1					
2018	Hispanic	10.3	-28%	14.9	-7%	322.7		115.6	
2019	Other	10.3	0%	13.1	-13%	281.6	-13%	103.5	-10%
2017	Non-	39.5		45.4					
2018	Hispanic	31.9	-19%	36.4	-20%	334.8		145.3	
2019	White	26.0	-18%	30.5	-16%	314.8	-6%	130.4	-10%



Death and Non-fatal Overdose by Sex 2017-2019

Year	Sex	Opioid Deaths /100,000	% chg from prio r year	Drug Death /100,000	% chg sfrom prio r year	Nonfatal Drug OD /100,000	% chg from prio r year	Nonfatal Opioid OD /100,000	% chg from prior year
2017		19 9		23 5					
2018	Female	17.0	4.40/	20.5	120/			00.0	
2019	••••••	17.0	-14%	20.5	-12%	315.0		98.6	
2010		13.9	-18%	17.9	-13%	315.2	0%	95.1	-4%
2017		51.4		58.1					
2018	Male	12 1	100/	18 0	16%	202 1		106.2	
2019		42.4	-10%	40.9	-10%	592.1		190.2	
_310		37.1	-12%	42.9	-12%	367.2	-6%	171.9	-12%



Overdose reports rising in 2020 (yellow) post COVID-19. Need to examine and address stress, stigma, limited peer support, access to medications and health care, and housing.

COVID-19 AND OVERDOSE ANALYSIS: ODMAP





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Pharmacy data relating to disparities for MOUD and Narcan





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Types of Pharmacy Data

	Type of Data
Location of Pharmacies	Location (zip code)Rural vs. urban
Buprenorphine Access	Location (zip code)Rural vs. urban
Covid-19 testing and Vaccine	 Location (zip code) Rural vs. urban Types pf vaccine Waiting period Insurance Hours
Methadone & Harm Reduction availability	 Stigma and barriers Location (zip code) Pharmacy based methadone uptake Drug take back boxes
Narcan Distribution (tracking)	 Characteristics Locations of people who pick up kits? Can we track kits used?



Data Tracking



 Tracking rates of use of different prescription opioids, harm reduction, covid vaccine and testing by race/ethnicity;

- Tracking rates of initiation and retention in different types of MOUD treatment (buprenorphine, methadone, naltrexone) by race/ethnicity;
- Tracking data of community residents;
 including people who experienced fatal/non-fatal overdoses by race/ethnicity.
- Data is helpful to come up with plans of action that are tailored to the different populations with OUD in the communities.



- Recent research suggests that pharmacies in low income neighborhoods are less likely to carry Naloxone (Abbas et al., 2020), and buprenorphine (Marotta et al., 2020). Moreover, racial and ethnic barriers to accessing COVID-19 testing may result in delayed treatment.
- Scaling up pharmacies to co-locate healthcare for those with OUD and other SUD in socioeconomically marginalized and racially and ethnically diverse neighborhoods may attenuate disparities in opioid overdose and COVID-19 mortality in New York State.







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4216.0 - Drivers of disparities in naloxone availability among pharmacies in New York City: A community and pharmacy-level analysis with implications for public health policy

Abstract

Background: Significant socioeconomic and racial disparities persist in the availability of naloxone in urban communities in the United States yet few studies investigate social determinants that are associated with naloxone availability. To address these gaps, this study investigated the association between community-level factors of poverty, lack of insurance coverage, greater concentrations of minority populations, and pharmacy-level factors of providing buprenorphine, and private space for consulting with patients and naloxone provision in New York City.

Methods: Individual level-pharmacy data for this study comes from questionnaires administered to 662 pharmacies in New York City. Community-level data consists of publicly available data provided by the New York City Department of Health aggregated using 34 United Hospital Fund boundaries. Random effects logistic regression models investigated associations between community and individual pharmacy-level factors and the odds that pharmacies would report having naloxone in stock to reverse the potential deadly effects of overdose.

Results: Out of all the pharmacies surveyed, 78.70% (n=521) reported carrying some form of naloxone in stock of which 69.49% (460) carried intranasal naloxone, and 7.35% carried auto injection naloxone. Greater neighborhood poverty was associated with lower odds of pharmacies carrying naloxone compared to pharmacies in neighborhoods with less poverty (AOR=.85, 95% C.I=.78, .94, p<.001). At the individual level, pharmacies that provided a private window to obtain naloxone (AOR=2.39, 95% CI=1.40, 4.10), a private room for consultation with pharmacists (AOR, 5.63, 95% CI=2.82, 11.25, p<.001) and who provided buprenorphine (AOR=2.55, 1.49, 4.38, p<.05) were more likely to carry naloxone.

Conclusions: Finding from this study suggest that community-level economic marginalization may contribute to disparities in access to naloxone in urban environments in the United States. Moreover, findings from this study support interventions to the built environment of pharmacies to respect patient privacy and reduce stigma to patients who access naloxone through pharmacies.



INITIATIVE

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PRESENTATION TITLE

HEAL INITIATIVE HCS Pharmacy Study 2021

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HCS Pharmacy Study

- <u>Pharmacy Study</u>: Equity in Access to Narcan/Naloxone, Buprenorphine, Naltrexone in pharmacies in HCS communities by key neighborhoodlevel SDH indicators (race/ethnicity, poverty, rural/urban), since COVID-19 restrictions in HCS communities went in place
- <u>COVID-19 Study</u>: Equity in Access to COVID-19 testing and medications (e.g. remdesivir) in Pharmacies in HCS communities by neighborhood level SDH indicators



Purpose:

- This study will inform policy and a larger study that would advance scientific knowledge of health disparities and integrated service delivery that incorporates pharmacies providing Narcan/Naloxone, Buprenorphine, Naltrexone and COVID-19 testing to opioid users.
- Engage more ethnic minorities
- Location: 16 HCS communities.



Aims 1-5:

- 1. Identify key facilitators, barriers to availability and overlap in MOUD services) and COVID-19 services in pharmacies, as well as access to and distribution.
- 2. Examine how this overlap differs between pharmacies in minority vs. non minority HCS communities by identifying and mapping differences in availability and distribution of COVID-19 testing and medication, as well as access to naloxone, and MOUD.
- **3**. To identify possible supply and shortages by neighborhood level.
- 4. To evaluate the attitudes towards co-locating access, distribution of Narcan/Naloxone, MOUD, harm reduction and COVID-19 services through in-depth interviews with pharmacists in HCS communities.
- 5. Group Model Building (GMB).



System Dynamics Modeling is Participatory

 We will apply best-practices in system dynamics model building and validation to engage the study team and other key stakeholders in an iterative, multi-stepped process: (1) problem identification/scoping, (2) system conceptualization, (3) model formulation, (4) simulation, and (5) feedback and evaluation (Weeks, Lounsbury, Li, et al. 2020).







Implications: Policy and Practice

- These findings have implications for public health policy that ensures equitable access and care for all, especially for marginalized communities. Pharmacies are a natural source for deploying harm reduction interventions because they are an essential part of neighborhood health and are granted by policies the ability to provide multiple health services for people with opioid use disorders.
- Barrier of health insurance from buprenorphine provision in New York and nationally.
- Pharmacies residing in neighborhoods with concentrated populations of people without insurance may disincentivize pharmacy stocking of buprenorphine resulting in neighborhoods with less availability of buprenorphine.
- The impact of providing incentives for pharmacies to stock buprenorphine in neighborhoods with high rates of uninsured.
- The impact of insurance enrollment campaigns on increasing pharmacies' willingness to stock naloxone.



HEAL INITIATIVE HCS Data Equity Initiative

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Objective

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Questions?



