Methodology and Advanced Analytics Resource Center (MAARC)

JCOIN 2.0 KICKOFF

September 29 & 30, 2025

THE UNIVERSITY OF CHICAGO

JUSTICE COMMUNITY OPIOID INNOVATION NETWORK
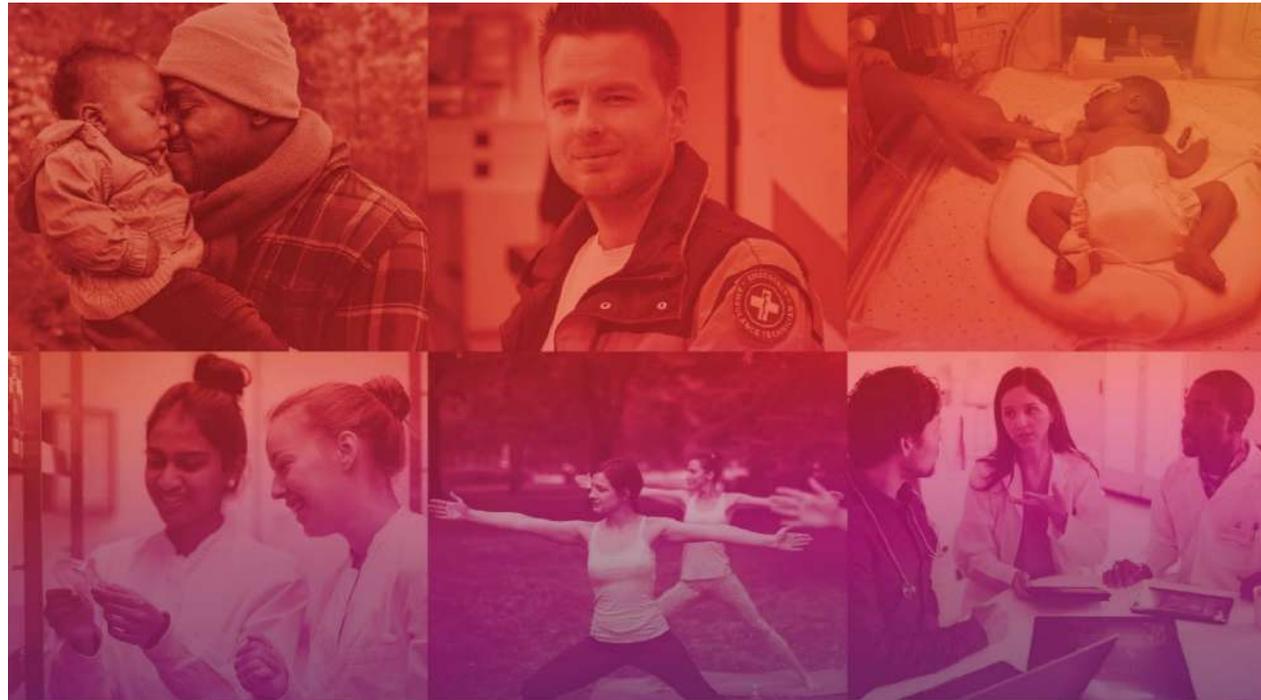
About the MAARC

- National Institute of Health (NIH) funded research center based at the University of Chicago.

- Comprised of Seven (7) cores

- Provide a national resource in identifying, assessing, and implementing essential interventions to address the evolving overdose epidemic among people experiencing criminal legal involvement.

- Conduct novel empirical research to ensure timely understanding of changes in current practices in the U.S. related to addressing SUD and overdose in criminal-legal settings and affected individuals.

- **Phase II Activities will include:**
  - Overall leadership and coordination of centralized data management;
  - Data infrastructure support, inclusive of any data harmonization activities;
  - Providing resources for advanced methodological and analytical techniques across the network;
  - Conducting research on dynamic changes in policy and practice in criminal-legal and relevant community-based service settings; and
  - Conducting novel studies applying cutting edge analytical techniques to existing data and data collected across the JCOIN network.

Executive Leadership Team and Administrative Core

John Schneider, MD, MPH (he/him/his)
Professor of Medicine and Epidemiology
University of Chicago
MAARC MPI - Director

Russell Brewer, DrPH (he/him/his)
Director of Director of Community
Engaged Research, Capacity Building and
Southern Initiatives
University of Chicago
MAARC MPI, Co-Director

Harold Pollack, PhD (he/him/his)
Professor, Crown Family School
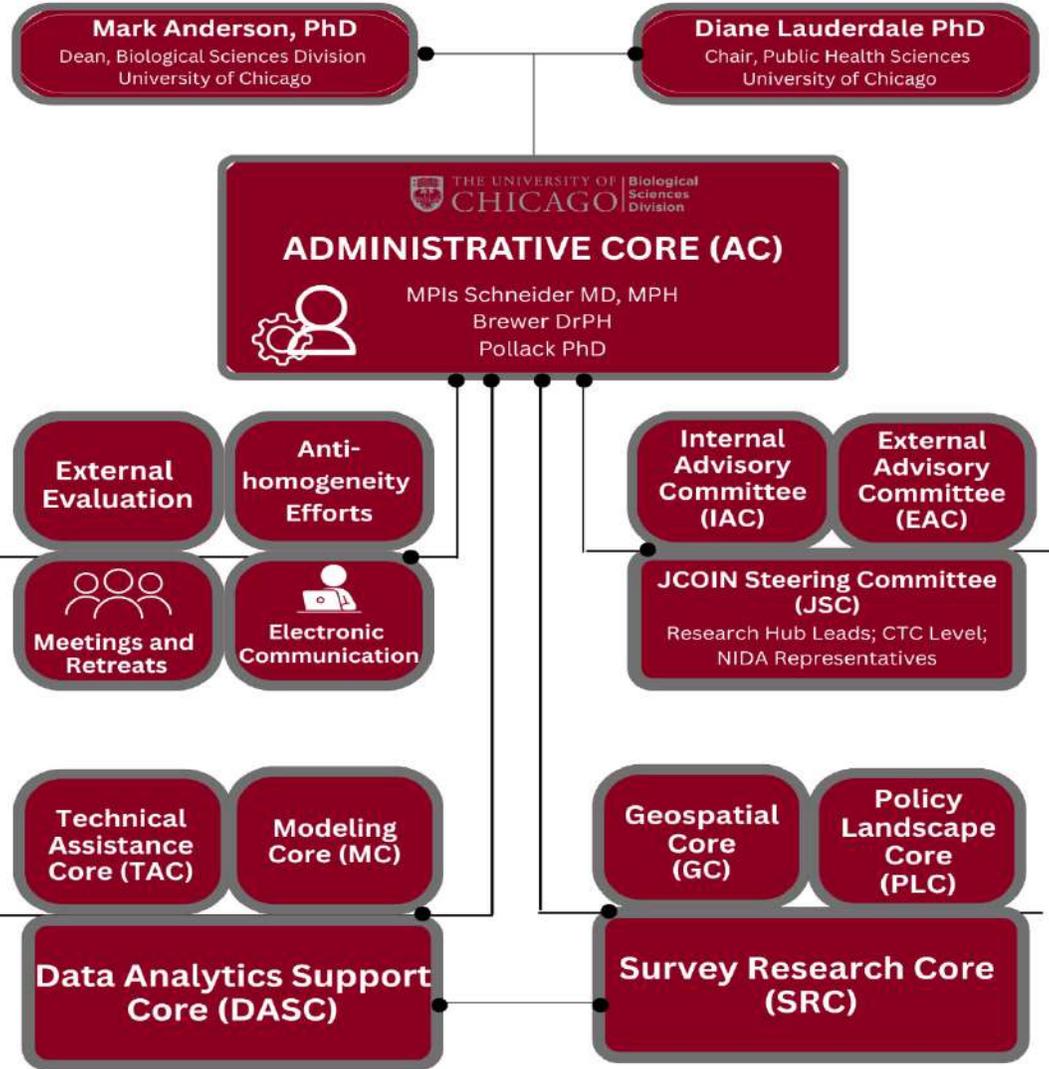University of Chicago
MAARC MPI, Co-Director

Mainza Durrell, DrPH
(She/her)
Director of Research CCHE
University of Chicago
MAARC Executive
Administrator

Nicole Summers (She/her)
University of Chicago
Project Administrator

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Methodology and Advanced Analytics Resource Center (2024-2029)

Accomplishments from MAARC 1.0

- Four cores - **Data Analytics Support, Advanced Methods and Research, Policy & Practice Observational and Survey Research Core** and **Administrative Core**

- Supported thorough **data curation and analytic support for 13 multi-site clinical trials and more than 50** additional distinct research protocols

- **Advanced the science with the dissemination of 40 publications** in *JAMA* and *Lancet* Family of Journals *Social Science and Medicine* and *Journal of Substance Use and Addiction Treatment*

- **Established the JCOIN Data Commons ecosystem** and was one of the first research groups in HEAL to share its metadata and data and by interoperating with the data platform

- MAARC 1.0 developed geospatial tools, including the **Opioid Environmental Policy Scan (OEPS)**

- Content experts from MAARC/JCOIN provided **Technical Assistance to 60 researchers over 5 years**

- The MAARC evaluated a newly formed **collaboration network involving 125 researchers from 11 research centers -** *Ducharme LJ, Fujimoto K, Kuo J, Stewart J, Taylor B, Schneider J. Collaboration and growth in a large research cooperative: A network analytic approach. Evaluation and Program Planning. 2024*

- Developed the **Justice-Community Circulation Model (JCCM) ABM framework** to study the intersection of incarceration and opioid use.

- Completed **16 JCOIN Protocols**

MAARC Services Offered in JCOIN 1.0

Completed 16 JCOIN Protocols

JCOIN 017: Justice-Community Circulation Model (Jonathan Ozik)

JCOIN 018: In Silico JCOIN Trial Models(Jonathan Ozik)

JCOIN 019: Measuring social and spatial inequities in access to opioid use disorder treatment for reducing HIV and HCV transmission (Marynia Kolak)

JCOIN 020: Finding an optimal distance of success: measuring access to critical resources in Opioid Use Disorder (OUD) Justice Settings (Marynia Kolak)

JCOIN 021: Spatially Extended Treatment Effect Analysis of Access to MOUD Resources and Changing Policies (Kolak)

JCOIN 022: Predictive-analytic models of opioid overdose and reoffending (Harold Pollack)

JCOIN 023: Substance use and treatment trajectories at entry and re-entry: a network analytic approach (Schneider)

JCOIN 024: Social Support Network Module (Carrie Oser)

JCOIN 025: Mapping federal opioid investments (Collen Grogan)

JCOIN 026: AmeriSpeak brief stigma survey (Bruce Taylor)

JCOIN 027: AmeriSpeak In-Depth Public Attitude Survey (Bruce Taylor)

JCOIN 028: National longitudinal jail/prison survey (Bruce Taylor)

JCOIN 029: JCOIN dynamic network collaboration study(Bruce Taylor)

JCOIN 066: Jail Incarceration, Release, and Fatal Overdose in LA County (Nina Harawa)

JCOIN 067: Pilot use of mobility data (Sean Young)

JCOIN 912: Qualitative analysis of critical-access opioid use disorder treatment units (Danielle Rudes and Harold Pollack)

TECHNICAL ASSISTANCE/CONSULTATION CORE

Core Leads: Olga (Olya) Morozova, Eric Polley

TECHNICAL ASSISTANCE CORE TEAM

Olga (Olya) Morozova (she/her)
Assistant Professor of
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Sciences
University of Chicago
Co-Lead

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Eric Polley (he/his)
Associate Professor of
Biostatistics
Department of Public Health
Sciences
Director of the Biostatistics Lab
University of Chicago
Co-Lead
epolley@bsd.uchicago.edu
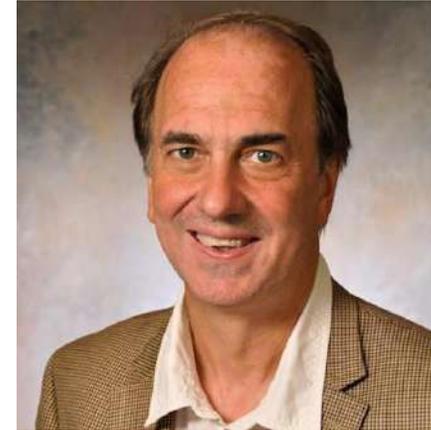
Donald Hedeker (he/him)
Professor of Biostatistics
Department of Public Health
Sciences
University of Chicago
Co-Investigator

Russell Brewer (he/him)
Research Professor
University of Chicago Medicine
Director of Community Engaged
Research, Capacity Building and
Southern Initiatives, CCHE
Principal Investigator

WHAT WE OFFER

On-demand Technical Assistance to JCOIN members and broader research and stakeholder community in the following main areas:

- Methodologic questions:
  - Study design, including survey design
  - Quantitative and qualitative analytic methods
  - Mathematical modeling
  - Geospatial analysis
  - Administrative data analysis
  - …

- Substantive questions
  - Structure and operations of criminal legal system
  - SUD treatment, harm reduction and recovery support
- Navigating JCOIN Data Commons and other data resources

All TA requests regardless of the area or question should be submitted via the online form:

The link is also available via the JCOIN CTC website:

https://www.jcoinctc.org/tta/

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DATA ANALYTIC SUPPORT CORE

Core Lead: Phil Schumm

Data and Analytic Support Core (DASC) Leadership Team

- Phil Schumm (he/him) Core Lead
    Director of Biostatistics and Statistical Computing, Center for Translational Data Science (CTDS)

- Russell Brewer (he/him)

Research Professor at the University of Chicago Medicine and Director of Health Equity Research and Southern Initiatives at the Chicago Center for HIV Elimination (CCHE)

- Brienna Larrick (she/her)
    Senior Scientific Project Manager, Center for Translational Data Science (CTDS)

- J Montgomery Maxwell (he/him)
    Data Scientist, Center for Translational Data Science (CTDS)

- Ellen Almirol (she/her)
    Associate Director of Biostatistics, Chicago Center for HIV Elimination (CCHE)

AIMS

1. Facilitate the collection, archiving, and management of data collected by the Research Hubs

2. Assist with closeout and curation of Phase I data, including archiving at NAHDAP and QDR

3. Facilitate internal (JCOIN) and external (public) data sharing across both JCOIN Phases, consistent with FAIR best practices and HEAL requirements

ACTIVITIES IN PHASE II

- Regular, recurring meetings with Phase I/II data managers (at least monthly)
  - Infrastructure training
  - Local data needs and requirements (including concerns regarding data privacy and sensitivity)
  - Solicit regular feedback and usability of infrastructure
- Create workgroups and resources for communication (e.g., discussion boards), and catalyze use
- Phase I closeout
  - Codebooks for *all data collected* (i.e., not just core measures), compliant with HEAL requirements
  - Rigorous review of all data
  - Support archiving of data with NAHDAP and QDR
- Phase II hubs
  - JDC Dashboard for study monitoring
  - Template to facilitate and standardize needs assessment and provision of DASC resources
  - More rigorous support of and adherence to regular uploads
- Full HEAL compliance with FAIR data standards and best practices
- More actively encourage and support data sharing and collaborative analytic projects

SURVEY RESEARCH CORE

Core Leads: Moira McNulty, Bruce Taylor

SURVEY RESEARCH CORE: CORE TEAM

Moira McNulty, MD, MS
(she/her/hers)
Assistant Professor of Medicine,
Infectious Diseases
Co-Lead, Survey Research Core

Bruce G. Taylor, PhD
(he/him/his)
Senior Fellow,
NORC, Public Health
Co-Lead, Survey Research Core

Phoebe Lamuda, MS, PMP
(she/her/hers)
Senior Research Director,
NORC, Public Health
Project Manager, Survey
Research Core

John Schneider, MD, MPH
(he/him/his)
Professor of Medicine, Social
Work, Public Health Sciences
University of Chicago
Co-I, Survey Research Core

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SURVEY RESEARCH CORE: AIMS

Aim 1. Conduct national surveys (Y2, Y4, and Y5) using NORC's online nationally representative panel (AmeriSpeak).

- Longer survey Y4 (target n ~6,825) with oversample of those with recent drug use
- Brief (5-7 min.) surveys Y2 and Y5 from solicited input (target n~1,000)

Aim 2. Explore the use of evidence-informed treatments to address SUD treatment and overdose and other relevant topics in jail settings.

- National Jail Survey Y2-Y3

Aim 3. Translation of insights from the field for incorporation into the project surveys and effective dissemination of results to a broad group of policymakers, practitioners and collaborators.

- Collaboration with CTC on dissemination products

SURVEY RESEARCH CORE IN JCOIN 2.0: WHAT'S COMING & HOW WE CAN HELP

- Aim 1:
  - Soliciting input for 1st brief national opinion survey
  - More information on the AmeriSpeak JCOIN surveys to be covered at a November 2025 National JCOIN Surveys Orientation Webinar
  - Targeting Spring 2026 fielding

- Aim 2:
  - Longitudinal National Jail Survey
  - Outreach to hubs on input for an updated National Jail Survey instrument
  - Working with CTC on obtaining endorsements from national associations
  - Targeting Spring 2026 launch

- Aim 3:
  - Working with MAARC cores + CTC to translate findings and disseminate to policymakers & practitioners

- Available technical assistance services :
  - Survey instrument
  - Survey design
  - Survey analysis

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GEOSPATIAL CORE

Core Leads: Marynia Kolak, Basmattee Boodram

GEOSPATIAL CORE TEAM

Marynia Kolak, PhD (she)
Core Co-Director

Basmattee Boodram, PhD (she/her)
Core Co-Director

Mai Tuyet Pho, MD (she/her)
Co-Investigator

Marc Astacio-Palmer, MS
Research Coordinator

Adam Cox, MSIS
Sr Software Engineer

Sara Lambert @NCSA
Sr Software Engineer

Shubham Kumar, MS
Product Designer

Harold Pollack, PhD
MAARC Co-PI

Leslie Williams, PhD

Mary Mackesy-Amiti, PhD

Qualitative & Quantitative Data Analyses

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GEOSPATIAL CORE OVERVIEW

Vision: Formalize, refine, and build community capacity for a geospatial framework of modeling the complexities of SUD **resource distribution dynamics** in justice populations and their communities.

We implement:
- Socio-ecological approach to modeling the factors driving the opioid epidemic,
- Open source and/or free GIS tools and spatial data science techniques,
- Consulting services to JCOIN hubs,
- Comprehensive data products for the entire U.S., coding resources, technical workshops.

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GEOSPATIAL CORE RESEARCH GOALS

(1) Identify distinct **community-level** indicators and **develop corresponding typologies** characterizing contemporary access barriers and facilitators to critical health services for all U.S. census tracts.

(2) Discern individual, organizational, & community barriers and facilitators of HRS access among urban, suburban, rural PWUD in an **Illinois case study**

(3) Develop a **critical health resource asset mapping** prototype for PWUD managed by multiple organizations, to support service discovery & access

(4) Develop a **Geospatial Community of Practice** program to build community capacity, expand organizational infrastructures, & guide dissemination

GEOSPATIAL SUPPORT SERVICES

first come, first-serve

Access & Spatial Variable Calculations

- From address to Census tract estimates
- Distance, Travel Time, Density, Gravity Model

Research Design

- Testing for spatial clustering, spatial regressions
- Defining "access" in your study or project work
- Measuring neighborhood factors in surveys

Mapping & Spatial Visualizations

- "Skill up" your GIS with R, Python, GeoDa, or QGIS
- Workshops, coding books, & community

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GEOSPATIAL DATA & CODING RESOURCES

- **Opioid Environment Policy Scan Data Ecosystem** (**oeps.healthyregions.org**)

- Hundreds of measures to characterize the multi-dimensional risk factor at community levels like socioeconomic, policy, and access measures.

- Data is free, documented, & available at multiple spatial scales, including state, county, zip code, and tract levels.

- Additional coding resources, workbooks, & details can be found at OEPS and GCCP sites.

GEOSPATIAL CONSORTIUM & COMMUNITY OF PRACTICE

- A collaboration of researchers and practitioners.

- Meet regularly to share, discuss, and learn how **geospatial methods, tools, and models** can be used to build understanding and develop resources for the opioid epidemic.

- **Next Workshop:** Intro to Spatial Data in R
  - October 23rd at 9:30a CST via Zoom
  - Register via main site at **gccp.healthyregions.org**

- **Panel & Roundtable:** Defining Opioid Geographies
  - Coming in January 2026

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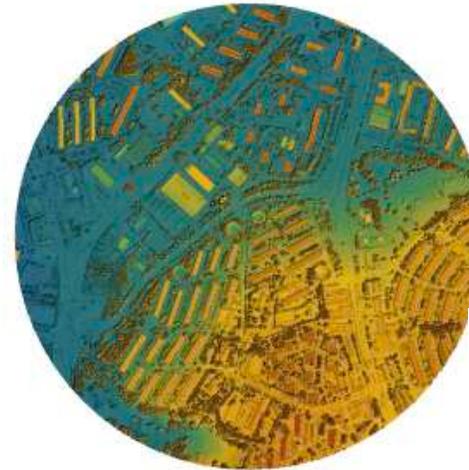
MODELING CORE

Core Leads: Anna Hotton, Jonathan Ozik

MODELING CORE TEAM

Anna Hotton
(Core Co-Lead)
University of Chicago

Jonathan Ozik
(Core Co-Lead)
University of Chicago/Argonne National Laboratory

Eric Tatara
Argonne National Laboratory

Olga Morozova
University of Chicago

Ellen Almirol
University of Chicago

Harold Pollack
University of Chicago

Nick Collier
Argonne National Laboratory

Sam Friedman
NYU Grossman School of Medicine

Elizabeth Salisbury-Afshar
University of Wisconsin

Kayo Fujimoto
University of Texas at Houston

Basmattee Boodram
University of Illinois Chicago

JCOIN PHASE I: Developed the Justice-Community Circulation Model (JCCM) ABM framework to study the intersection of incarceration and opioid use

• Detailed empirical data used to develop synthetic population demographics, substance use patterns, opioid cascade of care outcomes, and jail-based MOUD programs (A)

• Take home naloxone distribution at jail release and availability of naloxone in the community have important impacts on OD mortality, where bystander presence at an overdose event was an important moderator of program effectiveness (B)

A. JCCM Framework: within-jail processes
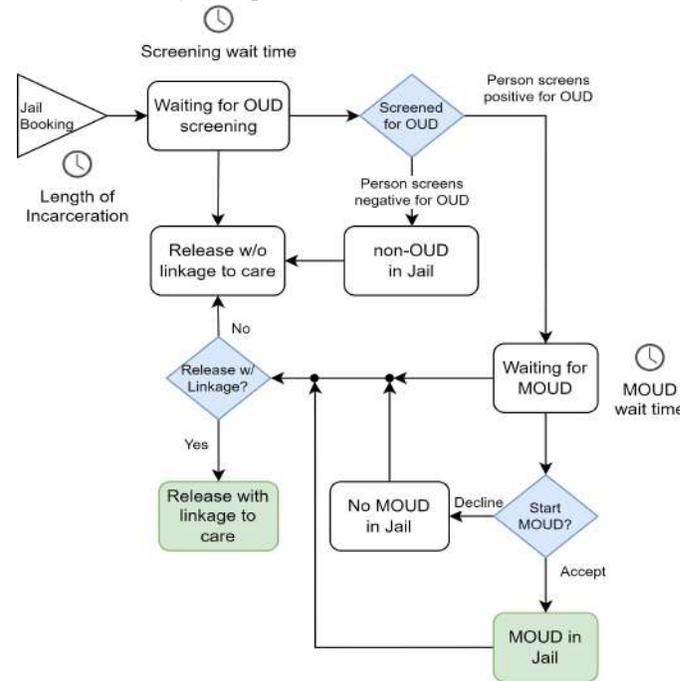
B. Percent of OOD deaths averted by community naloxone availability & probability that a bystander administers naloxone
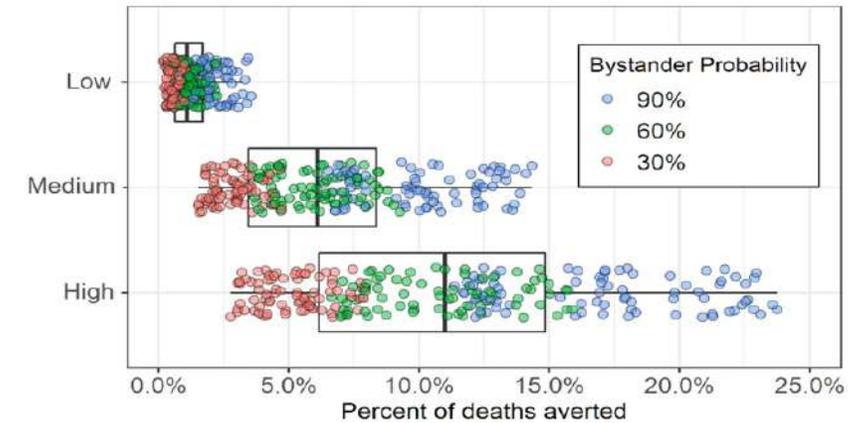
Tatara E, Schneider J, Quasebarth M, Collier N, Pollack H, Boodram B, Friedman S, Salisbury-Afshar E, Mackesy-Amiti ME, Ozik J. Application of Distributed Agent-based Modeling to Investigate Opioid Use Outcomes in Justice Involved Populations. IEEE Int Symp Parallel Distrib Process Workshops Phd Forum. 2021 Jun;2021:989-997. doi: 10.1109/ipdpsw52791.2021.00157.
Tatara E, Ozik J, Pollack HA, et al. Agent-Based Model of Combined Community- and Jail-Based Take-Home Naloxone Distribution. JAMA Netw Open. 2024;7(12):e2448732. doi:10.1001/jamanetworkopen.2024.48732.

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JCOIN PHASE II: Expand in-silico trials framework for modeling substance use interventions

- Allows for modeling potential intervention impact on a broader scale and longer time horizon, examination of multiple outcomes (e.g., cost, mortality, QOL), and understanding practical implementation hurdles when optimizing interventions for jail-based MAT

- Examining institutional and contextual factors
    o Institutional – e.g., screening practices, MOUD availability, post-release linkage to care
    o Contextual – e.g., OOD rates, community naloxone availability, incarceration rates

- Developing tools for scenario exploration of complex ABM output through interactive web-based apps to inform translation

Under development: R Shiny application for data exploration

- Distills complex model output in a more user-friendly format

- Allows users to explore and compare scenarios relevant to their local context
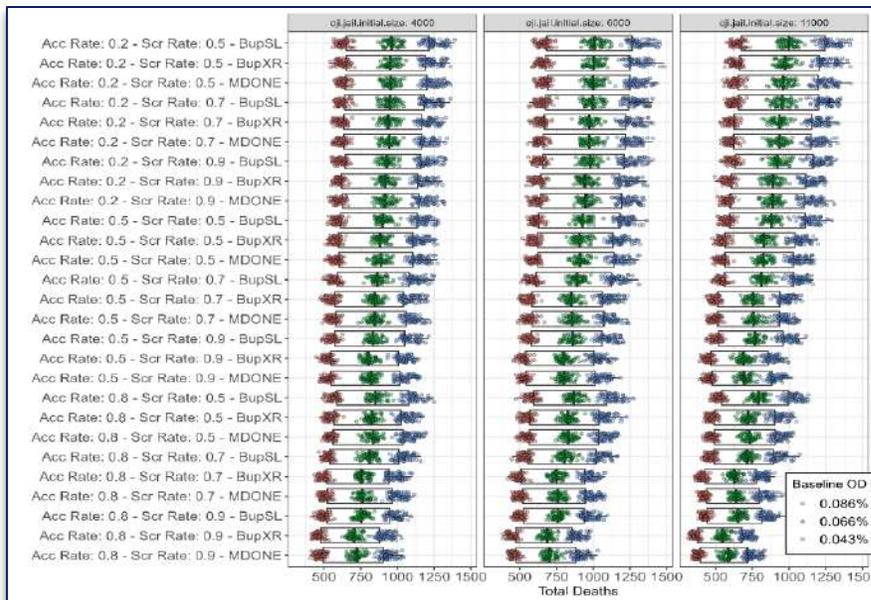
POLICY LANDSCAPE CORE

Core Leads: Harold Pollack, Colleen Grogan

Lauren Peterson (University of Chicago)

Amanda Abraham (University of Georgia)

Shelby Steuart (University of Chicago, Soon University of Maryland)

Christina Andrews (University of South Carolina)

Harold Pollack (University of Chicago)

Carrie Humphrey (University of Chicago)

Madelaine Nacci (University of Chicago)

Soham Sinha (University of Chicago)

Abbey Cliffe (University of Chicago)

Breanne Biondi (University of Chicago)

Colleen Grogan (University of Chicago)
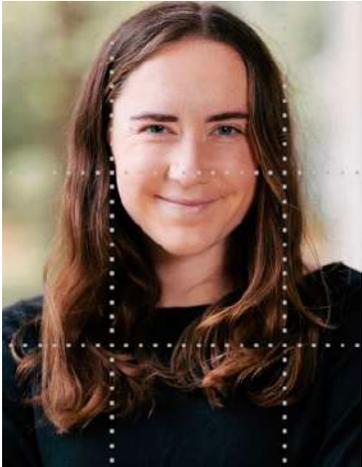
AIMS

- PLC will…
    - o Inventory and characterize major policy/legal/funding environmental changes with specific focus on Medicaid/criminal-legal-system linkages at the state and national level.
    - o Produce datasets and related resources that can be used by MAARC cores, JCOIN hubs, and the larger NIDA research community to assess and assist efforts by policymakers and criminal-legal-system actors to establish and maintain access to evidence-informed treatment and services for people who face the intersecting challenges of substance use disorder and CLI.
    - o Examine interdigitation of local and state-specific markers of citizens', policymakers', and criminal-legal system actors' perceptions and preferences with policy choices and (where possible) individual outcomes.
    - o Collaborate with MAARC Survey and Geospatial Cores to capture these data and conduct analyses with Medicaid and criminal-legal-system data.

PLC provides support to JCOIN researchers and secondary data users in the following broad areas:

- Data-analytic Questions
  - Analyses of Medicaid claims data
  - Analyses of state Medicaid waiver data
  - Analyses of other local policies pertinent to substance use outcomes such as Good Samaritan laws and state supports for harm reduction services
- Substantive Questions
  - Structure and operations of the criminal legal system
  - Substance use disorder treatment, harm reduction, and recovery supports
  - Medicaid waiver policy design and implementation
- Available Resources, including the JCOIN Data Commons
  - Linking specific datasets such as clinical trial data with pertinent local policy landscape covariates
  - Development of substance use disorder & reentry policy briefs/explainers

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ADMINISTRATIVE CORE

Core Leads: John Schneider, Russell Brewer, Harold Pollack

Admin Core Aims

AIM 1 : Integrate existing organizational and collaborative infrastructure.

AIM 2: Provide administrative, communication, fiscal and reporting management to MAARC.

AIM 3: Ensure the meaningful and useful evaluation of MAARC activities.

To accomplish these goals, the Admin Core is responsible for the MAARC's success in three domains:

- **Organization, Governance, Collaboration, and Integration:** Integrate existing organizational and collaborative infrastructure to ensure the accountable, efficient, and methodologically rigorous conduct of data curation and analysis, modeling, meta-data and other tool generation, intervention development support and orderly closeout of Phase 1 projects.

- **Quality, Communication and Efficiency:** Provide administrative, communication, fiscal and reporting management to MAARC to ensure each Core meets its activities in compliance with federal, institutional, and NIDA policies. This includes providing infrastructure and individualized support for effective communication among MAARC scientists across institutions and with all potential beneficiaries, CTC community key influencers, JCOIN Research Hubs past and present to disseminate the fruits of MAARC research and the importance of engaging in substance use, Criminal legal context and associated sequelae.

- **Rigorous Evaluation** - Ensure the meaningful and useful evaluation of MAARC activities, using established metrics and other measures to inform decisions for continuous quality improvement, across the entire range of MAARC research and consortium support and assistance missions.

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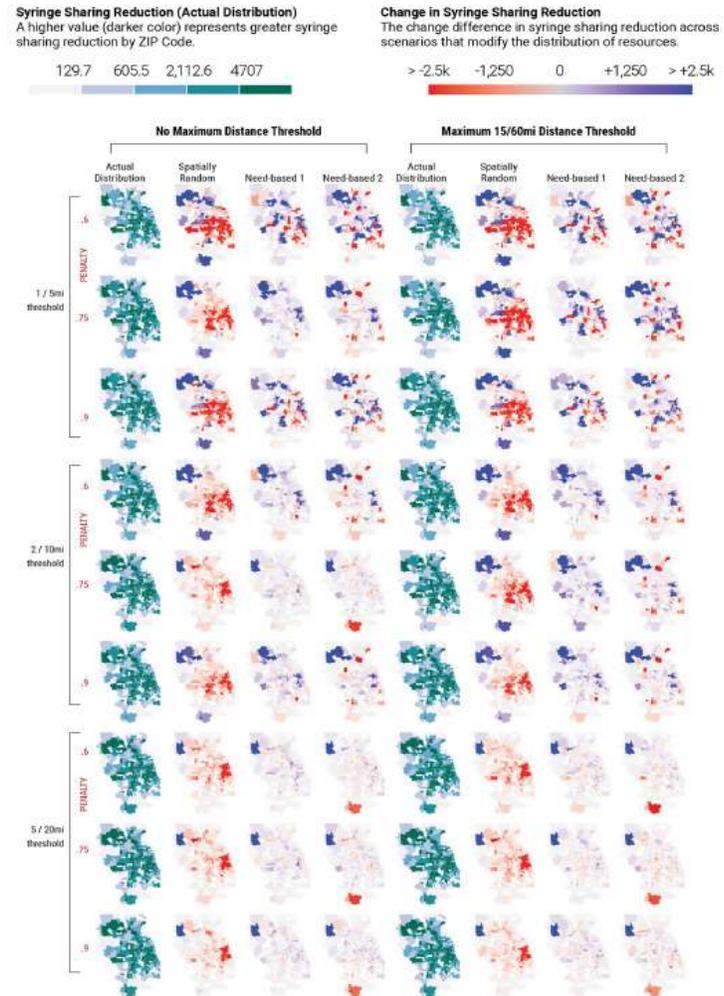# **Lighting The Way To Justice And Healing**
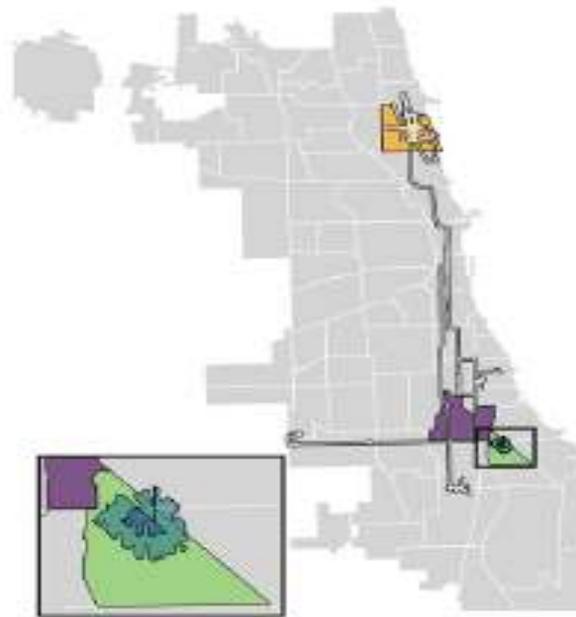
Figure 1.
GPS and survey-recorded areas for deriving mobility measures, three randomly selected participants, Chicago, The N2 Cohort Study
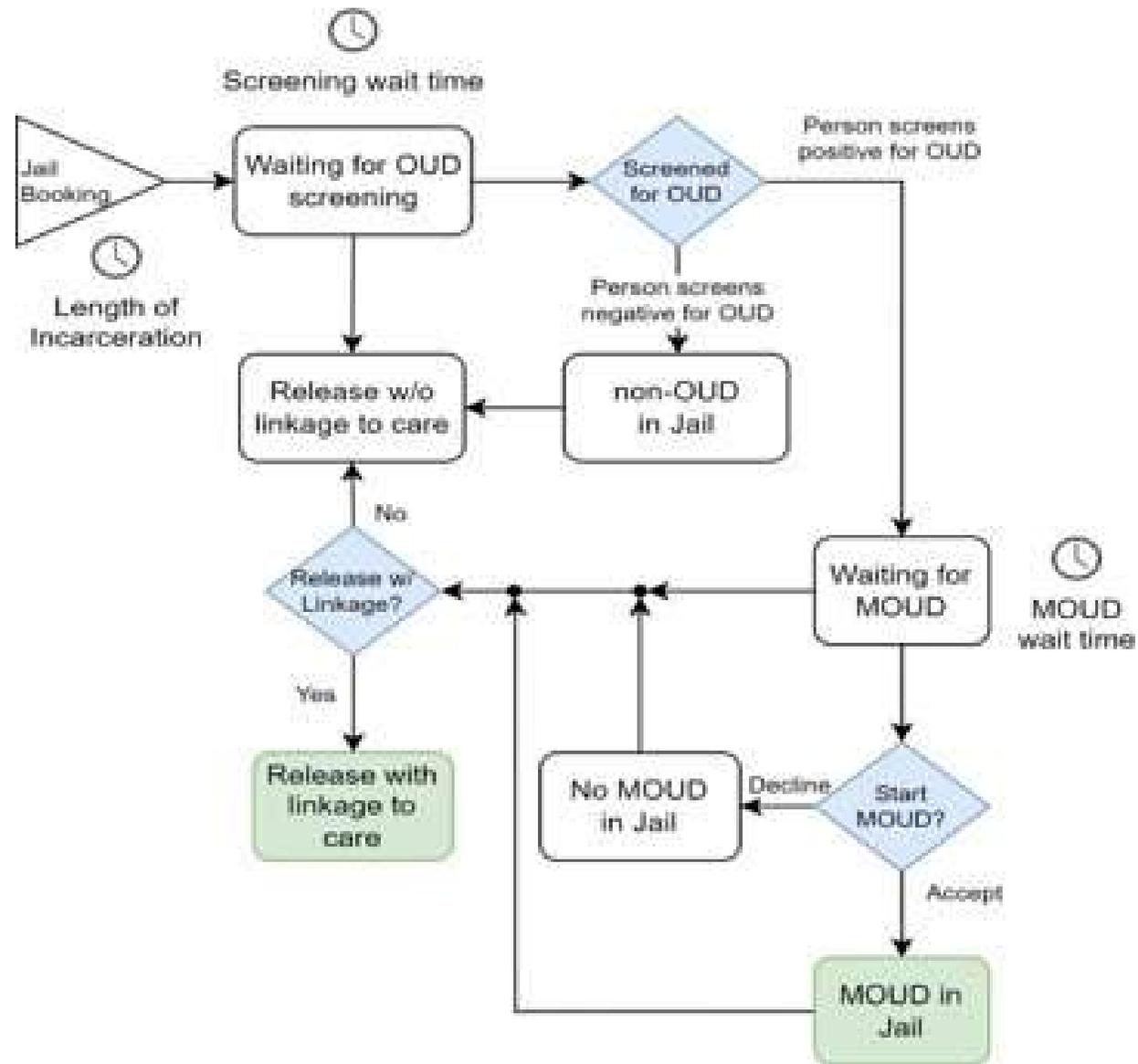
A beacon in the fight, where science is the mentor...
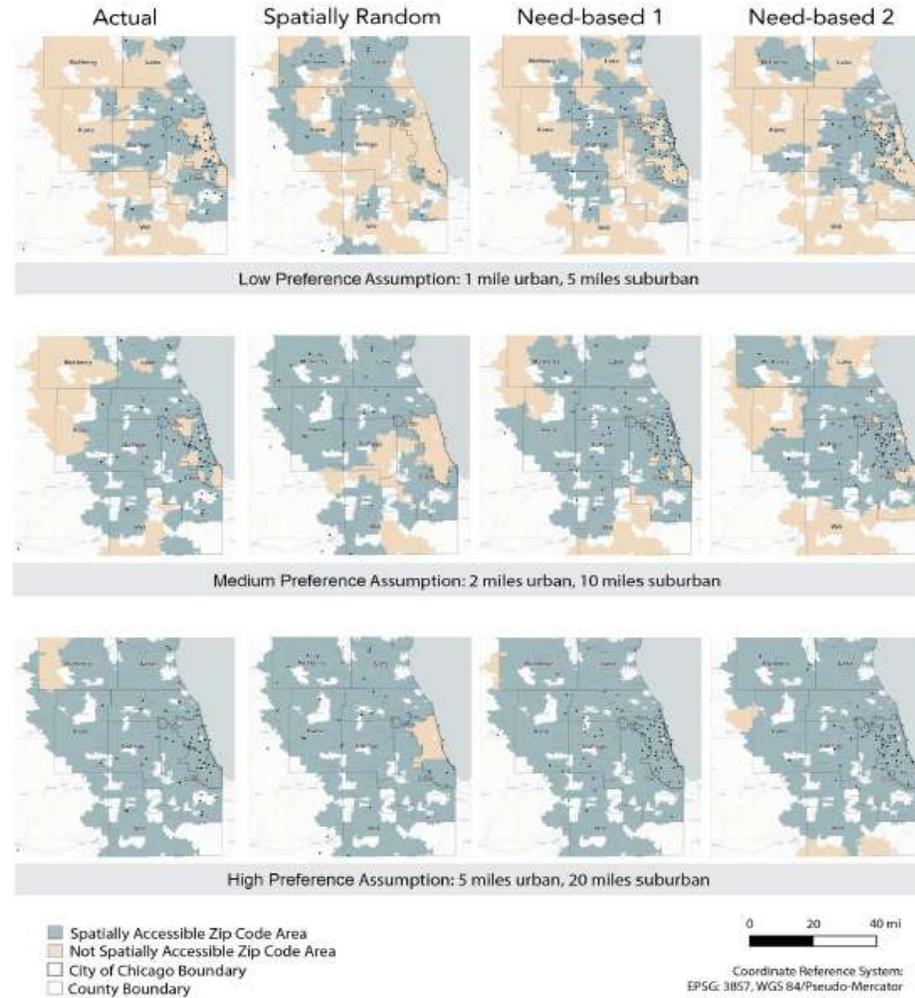
A national resource, united we stand...

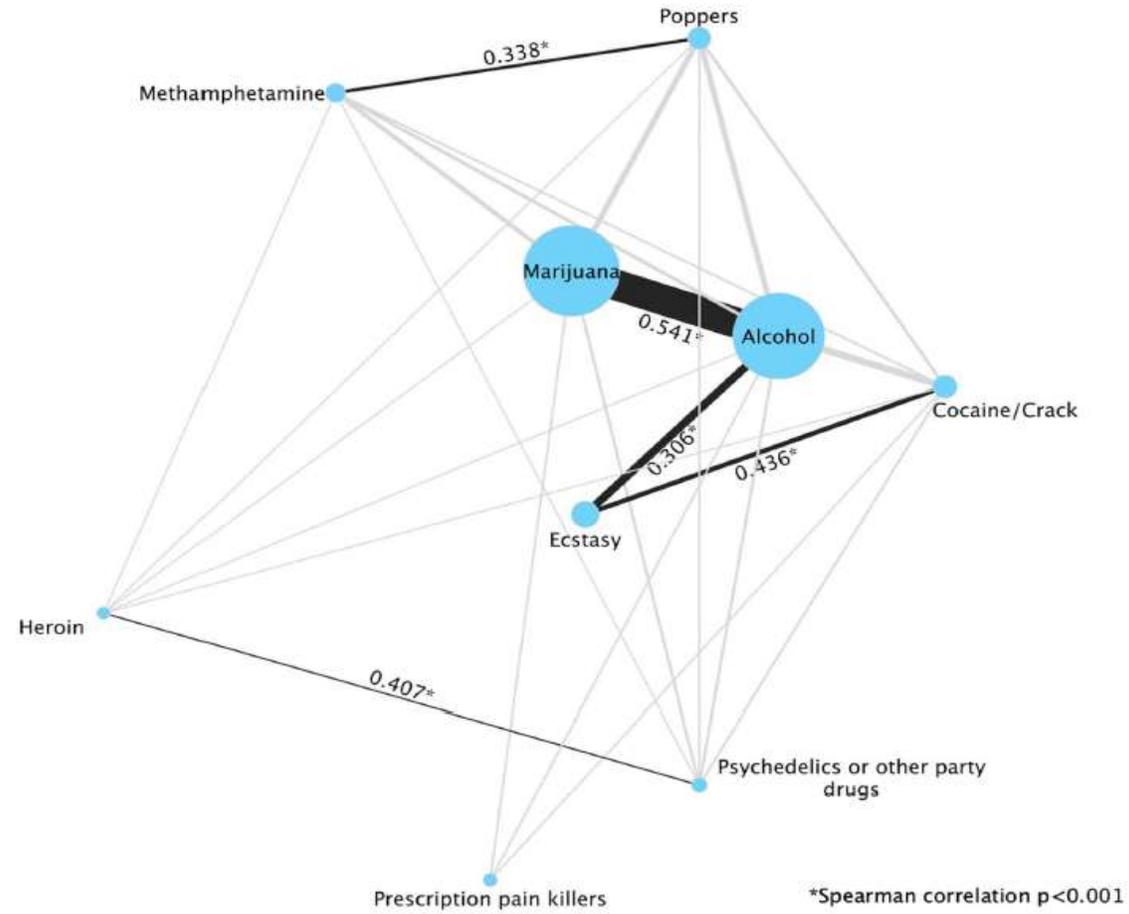*Facing the substance use crisis, we answer the call,*

Fig. 1.
One-mode projected network of sexpolydrug use among Black sexually minoritized men and transgender women in Chicago, Illinois

To bring hope and solutions, for one and for all.
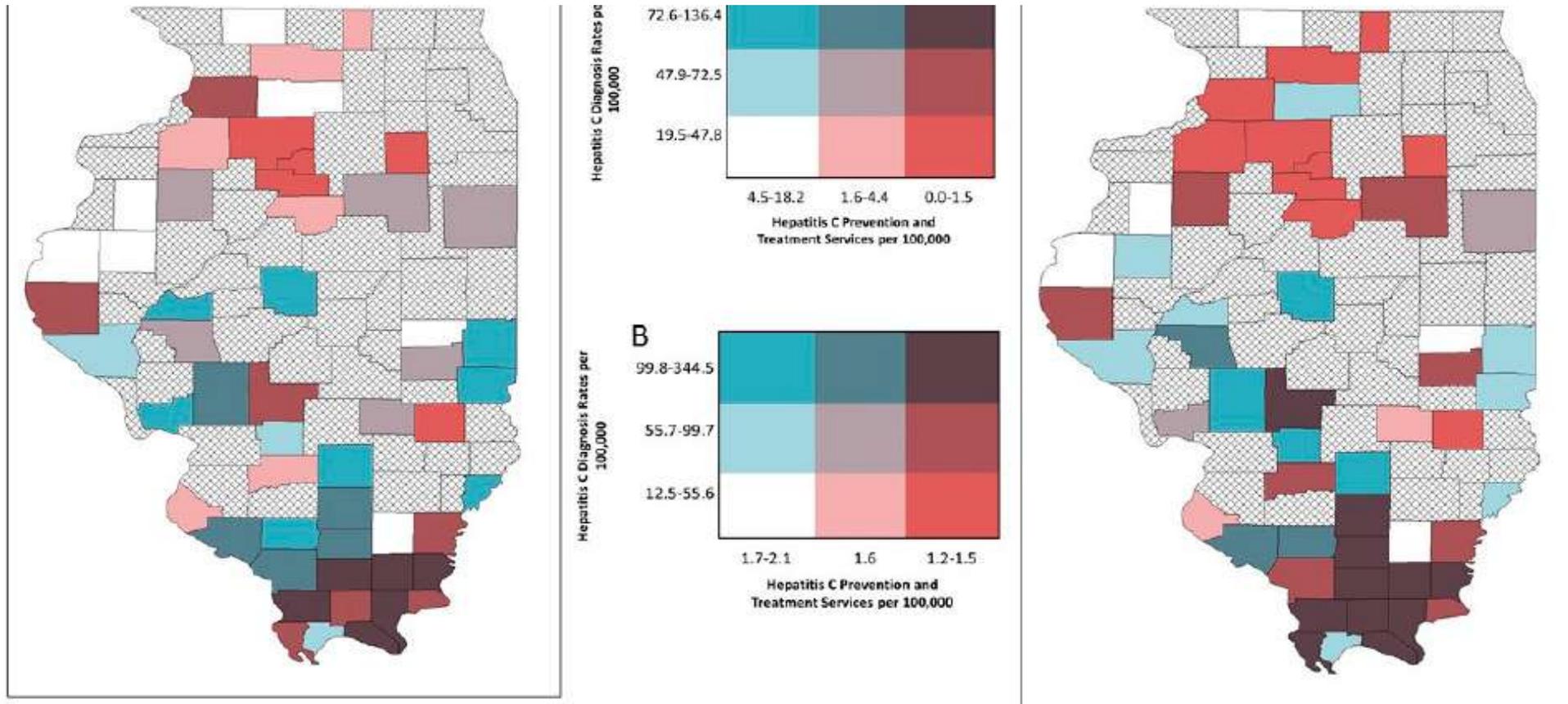
Figure 10. Bivariate choropleth maps of local health department services and disease burden, respondent rural counties, Illinois: hepatitis C prevention and treatment services and hepatitis C diagnosis rates; **(A)** crude rates **(B)** empirical Bayes estimated rates.

MAARC lights the way, through data we see,
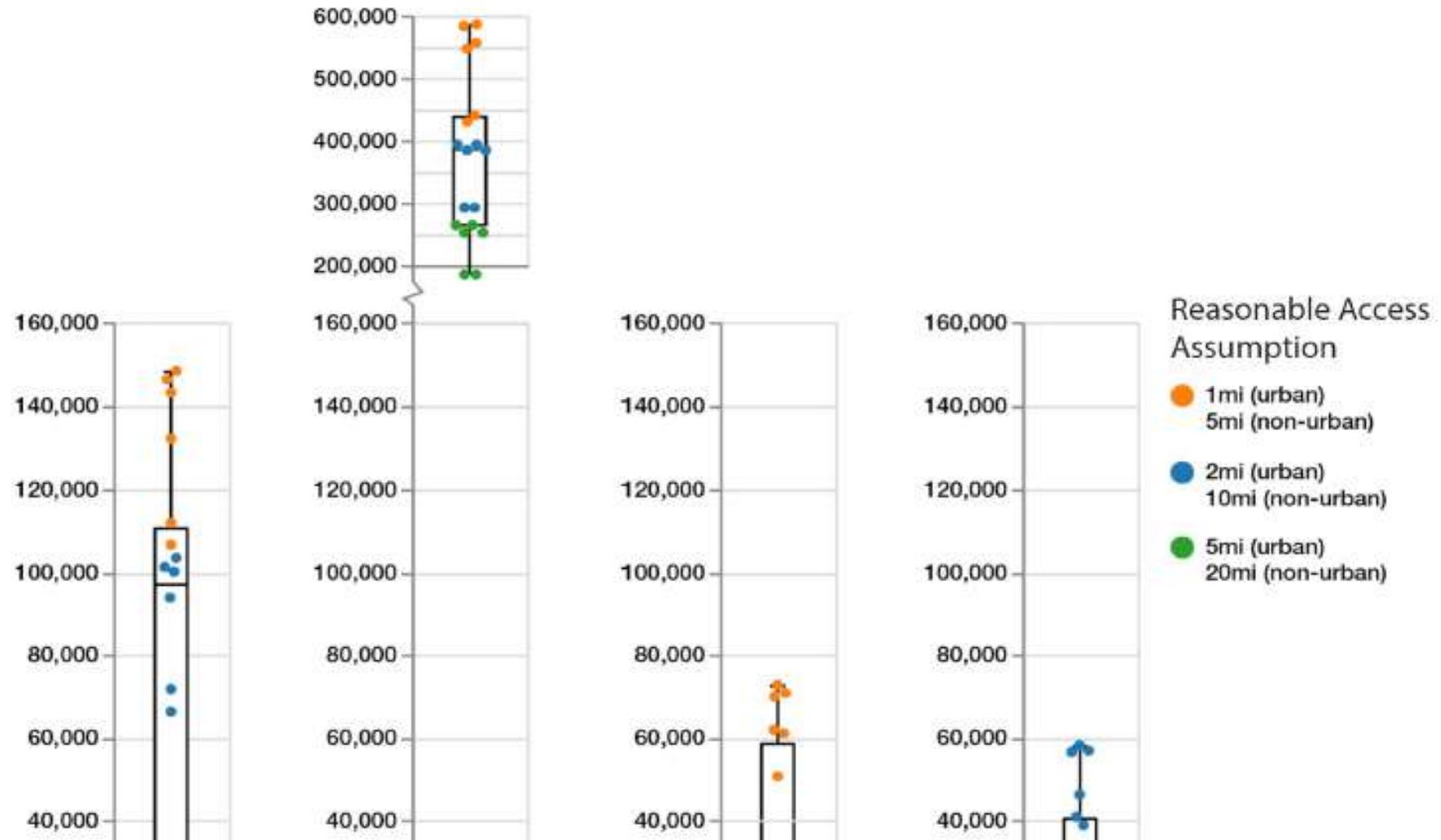
Building knowledge for change, for justice, for healing.
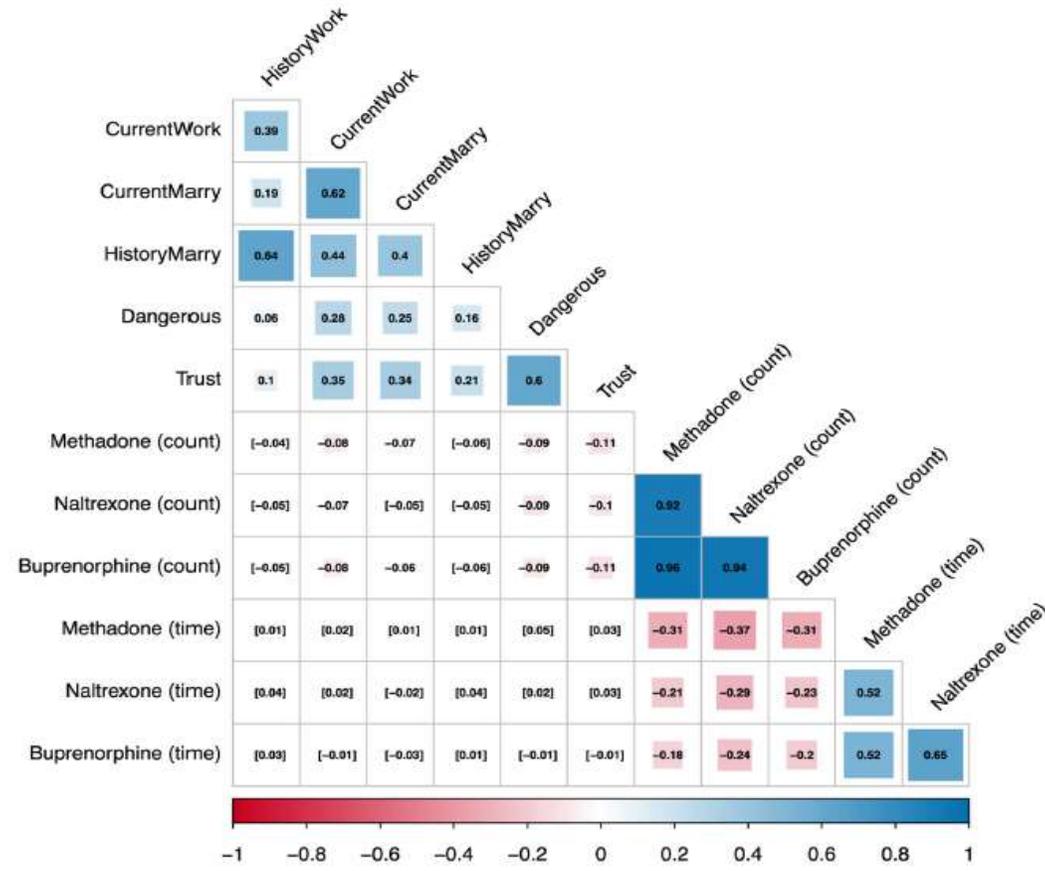
Fig. 2.

Correlation Matrix for Stigma Measures and Spatial Access Measures

Note. We report Pearson correlations based on weighted data. Coefficients are within brackets if not statistically significant at 0.05 level, with Bonferroni correction for multiple comparisons.

*With science and courage, together we fight,*

Figure 1: Brokerage Roles
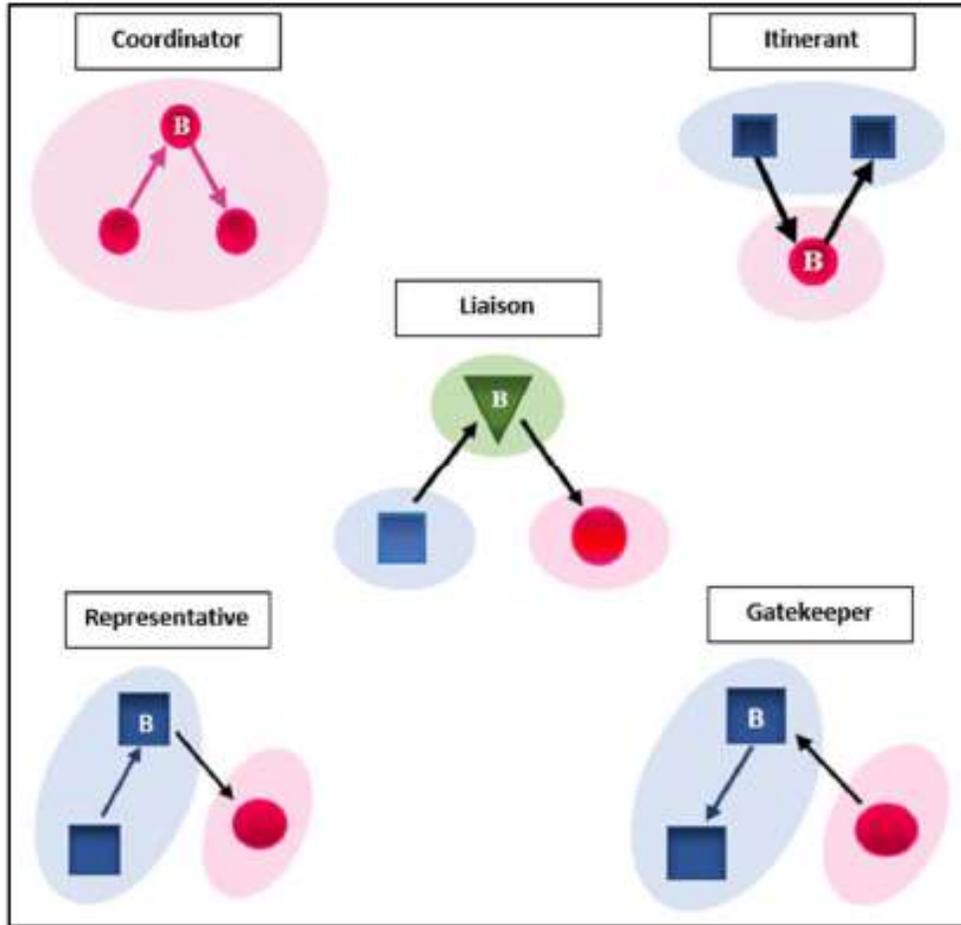
Note: Shown are five types of brokerage relations that were constructed for these analyses by partitioning respondents by their affiliations with research centers (i.e., non-overlapping subgroups). In the examples shown, Individual B is the broker of interest, and each color represents a different research hub and the broker's relationship to them. Adapted from Gould & Fernandez (1989, p. 93).

**Figure 2: Visualization of JCOIN collaboration networks with individual research hubs**
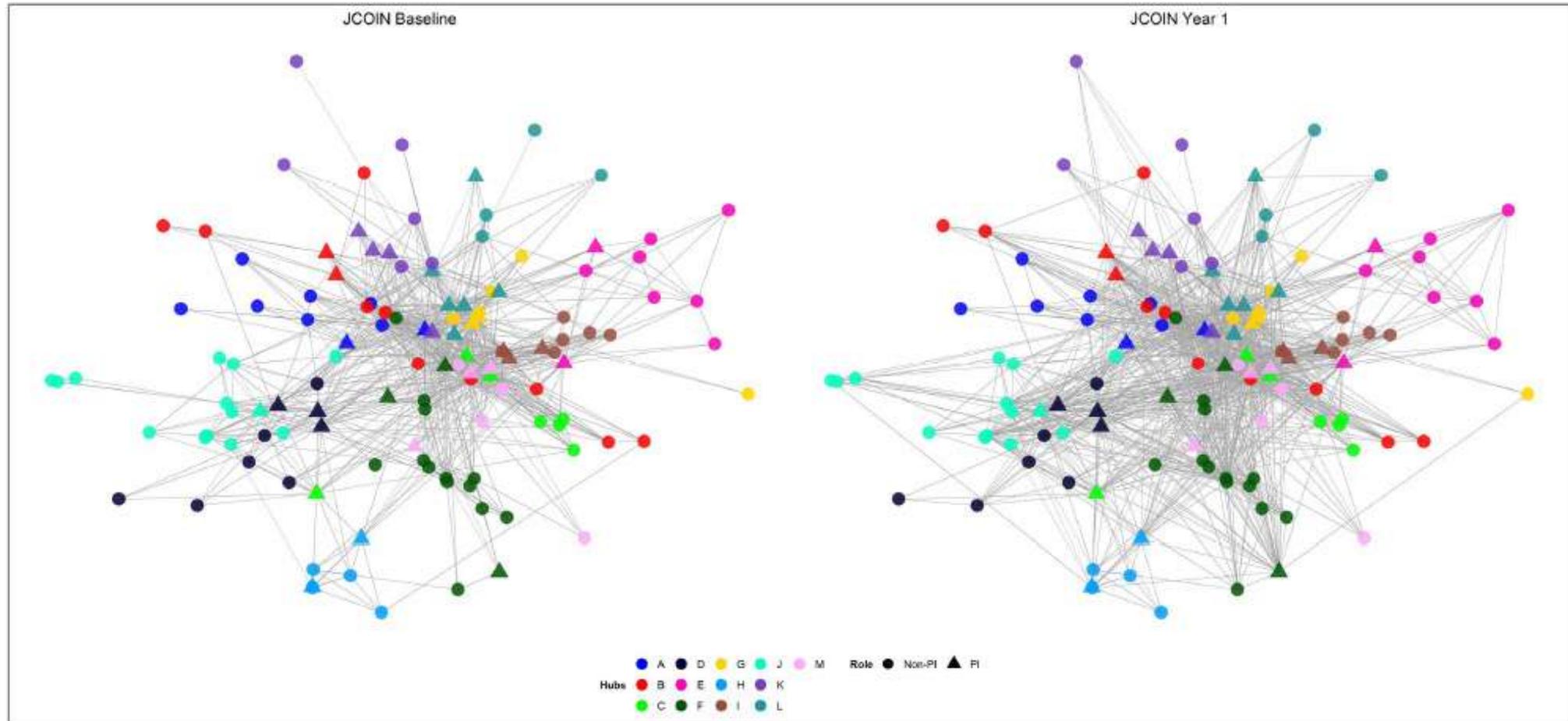
In the graphs shown, each point is an individual network member; triangles are PI's and circles are other research team members. Each research hub is represented by a different color. The collaboration network includes 124 nodes (number of researchers), 1,428 edges (number of collaborations) at wave 1, and 1,850 edges at wave 2. We estimated the node positions using a latent space random graph model (Hoff, Raftery and Handcock, 2002). Using purely the collaboration ties information, the model estimates node positions based on how likely a pair of nodes are connected – that is, how likely two researchers are to collaborate.

Primary Publications

Taylor, B.G., Lamuda, P.A., Flanagan, E., Watts, E., Pollack, H. and Schneider, J. (2021). Social stigma toward persons with opioid use disorder: Results from a nationally representative survey of U.S. adults. *Substance Use & Misuse*, *56*(12), 1752-1764.
PMID: 34315335, PMCID: PMC9295196. doi: 10.1080/10826084.2021.1949611.
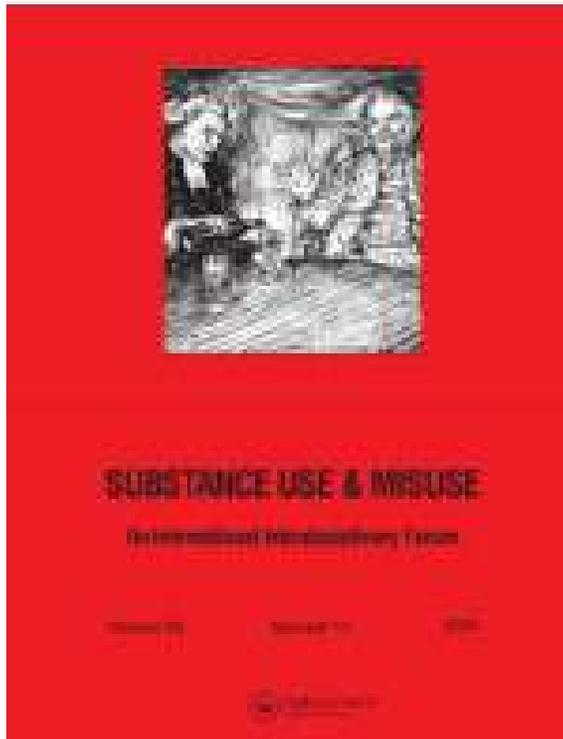
On average, the general adult population moderately endorses stigmatizing behaviors, agrees that OUD is a medical condition, agrees with policies to increase access to OUD treatment, and is less likely to endorse OUD as a crime. Having a disregard for OUD as a medical condition was most associated with higher levels of stigma, endorsing OUD as a crime, and disagreeing with policies to help people access OUD treatment.

Article

A National Portrait of Public Attitudes toward Opioid Use in the US: A Latent Class Analysis

Walters SM, Liu W, Lamuda P, Huh J, Brewer R, Johnson O, Bluthenthal RN, Taylor B, Schneider JA. A National Portrait of Public Attitudes toward Opioid Use in the US: A Latent Class Analysis. International Journal of Environmental Research and Public Health. 2023; 20(5):4455. PMID: 36901465 PMCID: PMC10001548 https://doi.org/10.3390/ijerph20054455

We identified three distinct groups: (1) "High Stigma/High Punitive Policy", (2) "High Stigma/Mixed Public Health and Punitive Policy", and (3) "Low Stigma/High Public Health Policy". People with higher levels of education had reduced odds of being in the "High Stigma/High Punitive Policy" group.

John
Schneider

Russell Brewer

Harold Pollack

Data keeps us hand in hand,

Phil Schumm

Bruce Taylor

Moira McNulty

Survey voices lead the call,

Basmattee Boodram

Marynia Kolak

Geospatial maps it all.

Olya Morozova

Technical assistance, strong and true,

Colleen Grogan

Policy landscape shows what's new,

Jonathan Ozik (Left)

John Schneider

Modeling the path ahead,

Anna Hotton

With every step, more lives are led.

Mainza Durrell

MAARC lights the way, through data we see,

Nicole Summers

Building knowledge for change, for justice, for healing.

Ellen
Almirol

With science and courage, together we fight,

J Maxwell

To turn back the darkness, and carry the light.

Abbey Cliffe

From policy shifts to lives on the line,

Brienna Larrick

We harmonize data, advance by design.

Lauren Peterson

Through methods and insights, the future we chart,

Christina Andrews

Together transforming, with purpose and heart.

Shelby Stuart

MAARC lights the way, through data we see,

Phoebe Lamuda

Building knowledge for change, for justice, for healing.

Eric Polley

With science and courage,

Kyle Conroy

together we fight

Eric Tatara

To turn back the darkness and carry the light

Amanda Abraham

To carry the light…..