



ANNUAL REPORT 2019-2020



DREXEL UNIVERSITY

Urban Health Collaborative

Dornsife School of Public Health



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The year 2019-2020 has been an unprecedented year for cities marked not only by the COVID-19 pandemic but also by renewed calls for racial equity and social justice, critical topics for cities all over the world. At the Urban Health Collaborative, we have been actively engaged continuing to support ongoing research, training and policy translation to promote health, equity and environmental sustainability in cities. But we have also pivoted to respond to the COVID pandemic. In addition, we have come together to reflect on and revisit our own practices so that we are actively anti-racist in all our work. We know that there is still much that we need to do as the UHC and as citizens of the world to achieve the goals of social justice and racial equity.

As COVID-19 emerged and spread across the globe, UHC faculty students and staff have been actively engaged in making visible the impact of COVID-19 on Black people and Latinx people in our own city of Philadelphia and in cities worldwide. Sharrelle Barber worked with a team of Dornsife faculty and students to produce a brief showing the links between structural racism, segregation and higher COVID-19 rates in Black residents of Philadelphia. In another example, the West Philly Promise Neighborhood (WPPN) team led by Félice Lê-Scherban and Amy Carroll-Scott created an interactive online data tool designed to inform COVID-19 response and recovery efforts in the hardest-hit neighborhoods of the city. Usama Bilal reported on inequities in COVID-19 testing, incidence and mortality in Philadelphia and across many other cities. Despite the challenges created by COVID-19 in our daily lives, we continued to come together in discussions and trainings virtually, including online brown bag seminars, invited speaker events, and our annual Urban Health Summer Institute in June. We welcomed new members and trainees to our team and organized an online launch event to welcome the second cohort of the Global Alliance for Training in Health Equity Research (GATHER) training grant, a NIMHD Minority Health and Health Disparities Research Training (MHRT) Program (T37).

The year was marked by many exciting events and activities. The UHC was very well represented at the 2019 American Public Health Association Annual Meeting including hosting the Society for the Analysis of African American Public Health Issues (SAAPHI)'s preconference meeting and the Housing and Health Equity Day of Action, all here in Philadelphia. Presentations by UHC members throughout the year featured comparative health data across cities of the US and Latin America, neighborhood health characteristics linked to electronic health record data, analyses of spatial processes including residential segregation and gentrification, and approaches to addressing trauma and resilience at the community level, among many others. SALURBAL team members also joined mayors, health ministers, other local authorities at the Third Regional Meeting of Mayors for Healthy Municipalities, Cities, and Communities in the Region of the Americas. The movement, which began as the Healthy Municipality Initiative led by PAHO, recognizes the key role of local governments in creating healthy public policies, supporting community participation, and reorienting health services to address the social determinants of health.

In the past year, we welcomed new partnerships and collaborations. The UHC began an exciting partnership with Big Cities Health Coalition (BCHC) to support the Coalition's vision of healthy, more equitable cities through innovation and leadership. We also announced a partnership with the Pan American Health Organization (PAHO) to collaborate on efforts to promote urban health throughout Latin America and were awarded a 2019 Wellcome Trust Climate Change and Health Award to partner with UC Berkeley on a study on green spaces, air pollution, and climate-related heat mortality in Latin American cities.

This year would not have been possible without all the hard work and dedication amongst our faculty, staff and trainees, as well as the support from our partners and funders. Yet there is always more to be done. Please reach out to us with any ideas you have to make our work more useful and impactful for the future.

Ana V. Diez Roux
Director, Urban Health Collaborative

Gina S. Lovasi
Co-Director, Urban Health Collaborative

About the UHC

The Drexel Urban Health Collaborative (UHC) was created to leverage the power of data, research, education, and partnerships to make cities healthier, more equitable, and environmentally sustainable.

Our Mission

To improve health in cities by increasing scientific knowledge and public awareness of urban health challenges and opportunities, and by identifying and promoting actions and policies that improve population health and reduce health inequities.

UHC key themes:

- Place based approaches
- Data for action
- Evidence for policy
- Health equity and social justice
- Community and policymaker engagement



The UHC Team

The Urban Health Collaborative has expanded rapidly in the five years since its inception and is now a robust center known nationally and internationally. The Collaborative is made up of over 27 staff members and engages and supports over 25 trainees from undergraduate to postdoctoral levels, funded internally through UHC fellowships or through external grants and contracts. The UHC also has a visiting scholar program to host emerging and established researchers from around the world. Currently, five experts from across the Dornsife School of Public Health lead the various UHC cores (Administrative Core, Training Core, Research and Data Core, and Policy and Community Engagement Core), with input from the UHC Steering Committee. Several tenure track and research faculty are administratively supported by the UHC, and 32 faculty from across the University are engaged as UHC faculty affiliates.

Steering Committee Members

The following members served in the UHC steering committee in the past year:

Amy Auchincloss, PhD, MPH
Research and Data Core Co-Lead

Sharrelle Barber, ScD, MPH
Research Faculty Representative

Jay Budd,
UHC Master's Trainee Representative

Amy Carroll-Scott, PhD, MPH
Policy and Engagement Core Co-Lead

Ana Diez Roux, MD, PhD, MPH
Director

Alex Ezech, PhD
Training Core Co-Lead

Jennifer Kolker, MPH
Policy and Engagement Core Co-Lead

Brent Langellier, PhD, MA
Affiliate Faculty Representative

Katie Livengood, MPH
Assistant Director

Félice Lê-Scherban, PhD, MPH
Training Core Co-Lead

Gina S. Lovasi, PhD, MPH
Co-Director

Kari Moore, MS
Research and Data Core Co-Lead

Katie Nelson, MPH
Doctoral Trainee Representative

Kelley Traister, MSW
Staff Representative

The Urban Health Collaborative is generously supported by a gift from Dana and David Dornsife and by Drexel University. Significant funding is also provided by a diverse set of external funders. This past year the UHC submitted 23 grant proposals and also collaborated on applications submitted by departments at the Dornsife School of Public Health. The 26 externally funded grants active in the past year provided 4.75 million in direct research expenditures, support faculty time, research staff, postdoctoral researchers, and students at both the doctoral and masters levels.

External Funders

American Heart Association	National Institutes of Health	State of Pennsylvania
Bloomberg Philanthropies	PeopleForBikes Foundation	Robert Wood Johnson Foundation
European Commission	March of Dimes	US Department of Education
Lazarex Cancer Foundation	de Beaumont Foundation	The Wellcome Trust

2019-2020 Accomplishments

In addition to advancing many ongoing research projects, during the past year UHC faculty, staff and students developed new partnerships, secured new funding, published academic papers, delivered invited talks and commentaries, engaged with global media, served on advisory boards and committees, collaborated with local and global partners and held various leadership roles. Below we highlight a few initiatives.

New Partnerships

UHC partnership and projects with the Big Cities Health Coalition (BCHC)

The UHC has partnered with the Big Cities Health Coalition (BCHC) to support the Coalition's vision of healthy, more equitable cities through big city innovation and leadership. BCHC is a forum for the leaders of America's largest metropolitan health departments to exchange strategies and jointly address issues to promote the health and safety of the 62 million people they serve. Currently, the UHC is engaged in three projects with BCHC. The first will focus on building a national urban health agenda that reflects the public health needs, assets, and best practices of BCHC cities and a strategic plan to guide BCHC's vision and future direction. In a second project, the UHC will redesign and manage the existing BCHC Data Platform to provide a detailed look at the health in 30 of the largest, most urban cities in the United States and revamp comparisons of health indicators across BCHC member jurisdictions. A third project will create a data platform to track inequities in COVID outcomes across BCHC cities.

UHC partnership with Pan American Health Organization (PAHO)

This partnership will support and increase ongoing collaborations between the Salud Urbana en America Latina (SALURBAL) or "Urban Health in Latin America" project, led by the Urban Health Collaborative and the Health Promotion and Social Determinants Unit at the Regional office of PAHO in Washington, D.C. The two groups will continue efforts to coordinate research and policy priorities, leverage regional contacts and engagement opportunities, and identify ways to improve the capacities of the local governments throughout the region in their efforts to promote urban health.

With the advent of the pandemic, UHC faculty, staff, and students came together to study and make visible how COVID-19 is affecting health and health equity in cities. UHC researchers have been speaking with multiple media sources to address and provide expert commentary on the coronavirus as well as continuing to create resources and content for the public health community.



Tracking Outcomes and Inequalities of the COVID-19 Pandemic across BCHC Cities

Fully understanding and responding to the COVID-19 epidemic and—in particular—the inequalities that COVID-19 has created and amplified—requires a robust city-level COVID-19 data platform and capacity to analyze data within and across US big cities. With support from the Robert Wood Johnson Foundation and in partnership with the Big Cities Health Coalition, the UHC is creating a data platform to track outcomes and inequities in COVID-19 Pandemic across BCHC cities, bringing to bear our expertise in health equity and the social determinants of health, neighborhoods and health, epidemiology, data and data analyses, and policy surveillance.

COVID-19 Inequities Among Hispanics in U.S. Cities

The COVID-19 pandemic has killed more than 200,000 people in the US, and wide inequities have been reported for people of different race and ethnic groups. Led by Usama Bilal, MD, PhD, MPH, and Mariana Lazo, MD, PhD, ScM, this project aims to create consistent estimates of racial/ethnic inequities in COVID-19 outcomes for Hispanics in the U.S. Specifically, the project will explore variability, trends and predictors of inequities in COVID-19 outcomes and examine trends in inequities in COVID-19 outcomes between Hispanics and non-Hispanic whites. Creating consistent estimates is key to exploring trends and predictors of these inequities to improve targeting of interventions that could be used to control current waves of the pandemic and to prevent future waves.

COVID-19 in Context: Racism, Segregation, and Racial Inequities in Philadelphia

Led by Sharrelle Barber, ScD, MPH, assistant professor at the UHC and including UHC affiliates Irene Headen, MPH, PhD and Loni Tabb, MS, PhD and students Breana Branch, MPH, and Kenna Yadeta, MPH, the brief “COVID-19 in Context: Racism, Segregation, and Racial Inequities in Philadelphia” illustrates how structural racism and historical and contemporary patterns of residential segregation have converged to create racial inequities and specifically high rates of COVID-19 incidence and mortality among Black residents. The brief describes how for individuals living in racially segregated neighborhoods, interlocking systems of structural racism related to the housing market, access to healthcare, food access and food insecurity, transportation systems, the labor market, toxic environmental exposures, and criminal justice combine to influence COVID-19 related outcomes.

Amy Carroll-Scott, PhD, MPH, policy and community engagement core co-lead, and Félice Lê-Scherban, PhD, MPH, training core co-lead, were one of seventeen awardees for Drexel University's Rapid Response and Development Fund. Their project "Creating a COVID-19 Urban Vulnerability Data Tool to Inform Mobilization and Coalition-Building" created a web-based data tool to assess risk indicators and identify areas and sub-populations within Philadelphia that will experience the highest burden of COVID-19 and its economic impacts. Identifying which areas of the city will be most vulnerable to COVID-19 health and socioeconomic impacts will be immediately useful to the wider Drexel community, West Philly Promise Neighborhood, and public and private agencies throughout Philadelphia to inform allocation of resources and focus of response efforts.

CDC SOCIAL VULNERABILITY INDEX DASHBOARD

Click on a theme title beneath an image to view a dashboard with maps and data about that theme.

To come back to this page and view another theme, click "go back to navigation page" or use the tabs at the top of the page.

To learn about how to use this tool, the terms we use and our data sources, click at the bottom of the page.

Socioeconomic Status Theme

Housing Composition and Disability Theme

Minority Status and Language Theme

Housing and Transportation Theme

Theme Scores

West Philly Promise Neighborhood COVID-19 Community Resources

The West Philly Promise Neighborhood team has come together with program partners, civic leaders, neighborhood residents, principals and school leaders to assess the needs of the local community and mobilize to meet them. The West Philly Promise Neighborhood project team developed radio messaging, posters, and infographics on various COVID-19 related facts and resources available during the pandemic and shared them with City agency leaders, West Philly partners (including food distribution sites), and via social media. During the height of the pandemic, resource bags containing cleaning supplies, educational supplies, and COVID-19 information and resources were distributed to civic leaders and neighbors daily.

Facts about Coronavirus Disease 2019 (COVID-19)

- ☒ **Are Black Americans immune to COVID-19?**
No, Black Americans are not immune. Black Americans are dying from COVID-19 much more often than white Americans. In Philadelphia, Black Americans are getting COVID-19 twice as often as white Americans.
- ☒ **Is there a cure for COVID-19?**
There is no cure for COVID-19. For most people with COVID-19, treatment means lots of rest and treating fever. Some people need to go to the hospital to get help breathing. A vaccine could be more than a year away.
- ☒ **Will the flu shot prevent me from getting COVID-19?**
No, the flu shot will not protect you from COVID-19. COVID-19 is different and often worse than the flu. But you should still get a flu shot. Getting the flu can make you more likely to get other illnesses including COVID-19.
- ☒ **Can I protect myself from COVID-19?**
Yes!
 - Stay home as much as you can
 - If you leave your home, cover your face from your nose to your chin and stay 6 feet away
 - Wash your hands with soap and water for 20 seconds
 - Avoid touching your face
- ☒ **Does staying at home really matter?**
Yes! Staying at home helps stop the spread of the coronavirus. It protects you, your family and your friends.

April 17, 2020

Text COVID19 to 888-777 to receive updates from the City of Philadelphia

WEST PHILLY PROMISE NEIGHBORHOOD

Stand Together by not Standing Together

PLEASE STAND 6 FEET APART

Help Stop the Spread by Practicing Social Distancing

Drexel University, MCHM, PLC, and other partners

TEENS CAN HELP STOP THE SPREAD OF COVID-19

STAY HOME

Staying home helps protect you and the people around you from coronavirus disease 2019 (COVID-19).

There are lots of activities you can do inside. You can read, exercise, listen to music, play games, draw, write, and watch TV. You can do these things with people you live with or a friend on the phone.

STAY CONNECTED

Talking to friends protects your mental health and reduces anxiety.

Connect with friends on your phone or online. Send a text, email, or video message. Use social media, or play games online with friends. If you don't have internet at your home, you can use a library or community center. Call 800-777-7777 for more information.

STAY SAFE

Follow these guidelines to protect you and the people around you from COVID-19.

- Stay home as much as possible
- Wear a mask if you go outside and stay 6 feet apart from others
- Wash your hands with soap and water
- Avoid shaking hands or hugging people
- Avoid face-to-face

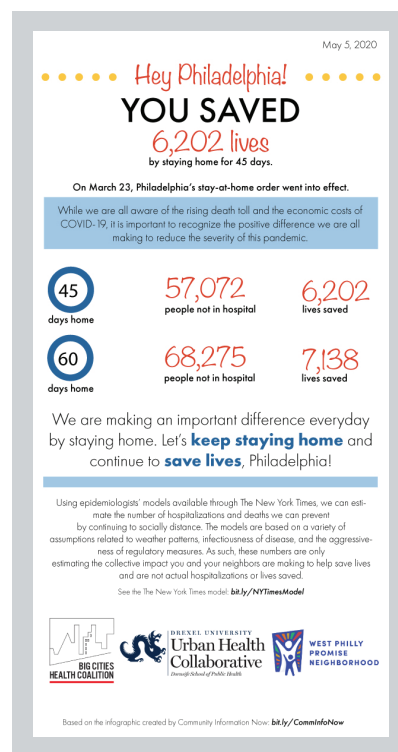
May 12, 2020

Text COVID19 to 888-777 to receive updates from the City of Philadelphia

WEST PHILLY PROMISE NEIGHBORHOOD

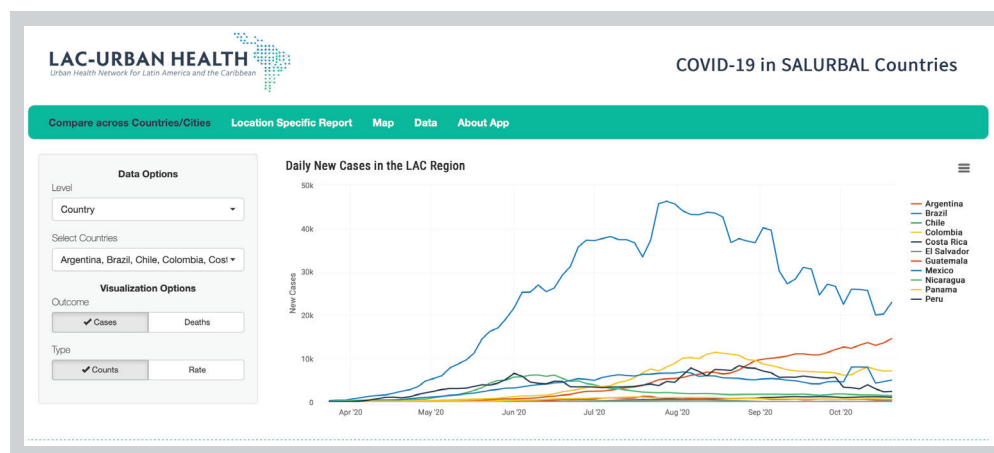
Lives Were Saved Stay at Home Orders

As the attention of media, leaders, and urban residents around the world grappled with emerging information about the COVID-19 pandemic, stay-at-home orders were issued for almost all large cities globally. Actions to limit the immediate threat from the coronavirus had social and economic costs, jeopardizing livelihoods and transforming daily life, making quantification of the benefits vital to informed decision-making. In partnership with the BCHC the UHC developed estimates of lives saved by stay-at-home orders in all 30 cities of the BCHC. Methodology for calculating estimates were developed and shared to the UHC by one of our NNIP partners, Community Information Now (CI:Now), a nonprofit committed to democratizing data, serving south-central Texas. These estimates were widely disseminated and cited by over 35 media outlets as well as by policymakers, including: Pennsylvania Governor, Tom Wolf, Philadelphia Mayor, Jim Kenney, and Mecklenburg County, North Carolina Manager, Dena Dioro.



Latin American COVID-19 Dashboard

A new online dashboard developed by the SALURBAL project allows visitors to plot trends of COVID-19 cases and deaths as well as to map these outcomes at various geographic levels: country, city, and sub-city in Latin American countries and compare the progress of the pandemic across cities. Using data compiled by Johns Hopkins University and from Latin American country governments, this online dashboard generates visualizations which can be tailored to the information needs of website visitors and which can be downloaded and shared. The data is currently being used in various analyses of how city characteristics influence COVID-19 outcomes.



UHC in the Media

Over the past year several UHC faculty have served as expert resources for a broad range of media outlets. UHC faculty experts spoke to the media on a variety of topics and pressing public health issues including racism and its impact on public health; disparities in COVID-19 testing, and racial and ethnic inequities in new coronavirus infection and mortality. UHC work on lives saved by the lockdowns was also widely cited in the media. Faculty have also spoken out about social inequalities globally and discussed the impact of the COVID-19 pandemic in Latin America, in addition to many other topics. UHC experts were featured in local, national, and global media outlets including: The New York Times, The Washington Post, The New Yorker, Rolling Stone, WHYY, NPR, CNN, The Philadelphia Tribune, The Philadelphia Inquirer, Smithsonian, and Harvard Political Review to name a few.

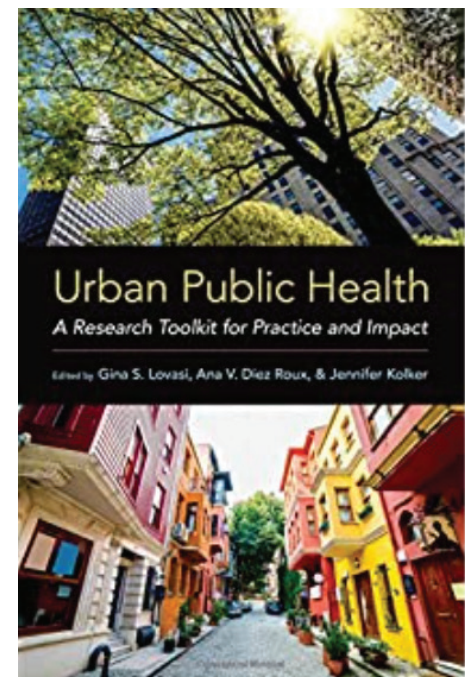
Community IMPACT Philadelphia Cancer Report

A new report led by the Urban Health Collaborative in partnership with the Philadelphia Department of Public Health, Fox Chase Cancer Center and the Lazarex Foundation described cancer incidence and mortality rates as well as risk factors for cancer in the city Philadelphia over the last decade. The report has a especial emphasis on inequities by race and socioeconomic factors. The comprehensive report, which is the first of its kind, outlines key facts needed by public health agencies, policymakers, and healthcare providers to better serve people and make informed choices on resource allocation. Alongside the report, the research team also developed a community brief and an interactive dashboard. These products can be found by visiting bit.ly/PhillyCancer. This research was supported by the Lazarex Cancer Foundation as part of the Community IMPACT project in collaboration with the Drexel College of Nursing and Health Professions.



Urban Public Health: A Research Toolkit for Practice and Impact

UHC faculty Gina Lovasi, PhD, MPH, Ana Diez Roux, MD, PhD, MPH, and Jennifer Kolker, MPH, co-edited a new book that reviews key urban health concepts and frameworks, the state of urban health worldwide, and key approaches to research on urban health including measurement and analytical approaches. The book also discusses policy translation and dissemination as well as partnerships to promote urban health. The book tackles many of the issues salient to the UHC including the critical need to address urban health inequities and the role of partnerships and inter-sectoral policies in urban health as well as the links between urban health and environmental sustainability. The book reflects the collective work of the UHC and orients our core missions and values within the field of urban health research. A significant accomplishment in its publication, the book includes contributions from many individuals including: Sharrelle Barber, ScD, MPH; Usama Bilal, MD, PhD, MPH; Amy Carroll-Scott, PhD, MPH; Marla Gold, MD; Pedro Gullón, MD, PhD, MPH; Rosie Mae Henson, MPH; Jana A. Hirsch, PhD, MES; Katherine Indvik, MSc; Rennie Joshi, MPH; Stephen Lankenau, PhD; Adriana Lein, MSc; Steven Melly, MS, MA; Jonathan Purtle, DrPH, MPH, MSc; Harrison Quick, PhD; Claire Slesinski, MSPH; Ivana Stankov, PhD, and Vaishnavi Vaidya, MPH.



Urban Health Symposium

In September 2019, the UHC organized its third biannual urban health symposium "Reimagining Health in Cities: Challenges and New Directions" featuring two jam-packed days of inspiring speakers, poster presentations, and professional networking opportunities. The meeting brought together over 200 participants from across the US and several countries. Highlights included a lively session with urban health leaders; an innovative session on novel uses of data; and a keynote address from Thomas Farley, MD, MPH, Health Commissioner, City of Philadelphia. In addition to the informative and insightful sessions, the Symposium also featured over 50 posters, covering a broad range of research topics related to urban health.

[illegible]

Data show that COVID-19 is affecting African Americans in Philadelphia at disproportionately high rates. This brief explores the structural patterns of racism and residential segregation contributing to the COVID-19 pandemic in Philadelphia neighborhoods.

Health data available for small areas is often limited because few events occur or because the number of respondents to a health survey living in the area can be small. This brief explains small area estimation techniques as a way to provide more reliable estimates when sample sizes for certain areas are small.

HOW COMMON IS CANCER IN PHILADELPHIA?

In 2016, 7972 people in Philadelphia were newly diagnosed with cancer. This amounts to 478 new cancers for every 100,000 people in Philadelphia. This is a rate that is slightly higher than the rate in the United States as a whole, but not much higher. In fact, it's somewhat more common in men than in women: there were 528 new cases of cancer for every 100,000 men and 446 new cases of cancer for every 100,000 women in the city in 2016.

Figure 1 shows the incidence rates of cancer in 2016 for the three most common types of cancer in men and women. Prostate cancer is the most common type of cancer in men, followed by lung cancer and colorectal cancer. Breast cancer, lung cancer, and colorectal cancer are the most common types of cancer in women. While these three types of cancer are the most common, they are not the only types of cancer that can be diagnosed and treated in our region. There are many other types of cancer that can be diagnosed and treated in our region, and we have a lot of experience with them. We have a lot of experience with them, and we have a lot of experience with them.


Sex	Prostate Cancer	Lung and Bronchus Cancer	Colorectal Cancer	Breast Cancer
Men	139.3	85	50.3	-
Women	-	90.2	48.4	120.4

Deaths (thousands)

Age adjusted using the 2013 U.S. standard population

This brief explores cancer and cancer disparities in Philadelphia. It examines cancer incidence and mortality and uses of cancer screening. It also takes a closer look at some of the risk factors in Philadelphia contributing to cancer.

The lack of collaboration between researchers and policymakers along with the complexity of policymaking can prevent vital information on health equity and sustainability from being passed along. This brief, developed by the SALURBAL project, reviews challenges and opportunities related to knowledge to policy translation for urban health in Latin America.



LAC-URBAN HEALTH
Latin American Cities
Urban Research & Health

Lessons From Latin American Cities
2014 Annual Report
September 2015

MORTALITY AND LIFE EXPECTANCY

IN LATIN AMERICAN CITIES

Data from the SALURBAL Project

There is a high level of variation in the expectancy and causes of death amongst urban areas in Latin America [1]. Global and regional patterns of life expectancy and causes of death can be significantly variable across cities [2]. Studies that examine urban mortality across heterogeneous cities are needed to inform sustainable life. Urban environments that affect access to health services and the environment are important in the study of mortality and causes of death.

The data brief covers the expectancy of the SALURBAL project in harmonizing and describing mortality across 566 cities in 10 countries.

SALURBAL Mortality Data

SALURBAL compiled and harmonized mortality data for 384 cities in Latin America, covering the period 1990-2010. The data are available in three levels of aggregation: at the city level, at the urban centers (inside of city limits) or at urbanizing clusters level. To better understand the mortality and life expectancy characteristics in the case of urban centers in the LAC, we have also included the data for the urban centers and the urbanizing clusters. The data are available in three levels of aggregation: at the city level, at the urban centers (inside of city limits) or at urbanizing clusters level. To better understand the mortality and life expectancy characteristics in the case of urban centers in the LAC, we have also included the data for the urban centers and the urbanizing clusters.

Key messages


There is significant variability in life expectancy and causes of death amongst Latin American cities.

Local authorities should invest in maximizing the health and quality of life of the population in order to improve the living conditions of the city.

See [Data in the SALURBAL Project](#) for more information on city selection, geographic details, and data access. [3]

Data shows that there is significant variability in life expectancy and causes of death across Latin American cities. This data brief presents the experiences of the SALURBAL project in harmonizing and describing mortality data across 366 cities in 10 countries and describes preliminary research findings developed with this data.

The Health in All Policies (HiAP) approach provides a framework for understanding how urban environments affect health, and how urban policies can be leveraged to build healthy, inclusive cities. This brief describes initiatives by the SALURBAL project and the Pan American Health Organization (PAHO) to advance HiAP implementation. On October 31, SALURBAL and PAHO officially launched and presented the brief to the mayor of Paipa, Colombia.



Urban Health Collaborative

Improving the health of the city

DECEMBER 2015

METHOD BRIEF

BORROWING INFORMATION FROM NEIGHBORS: ESTIMATING HEALTH IN SMALL AREAS

Why do 'small areas' matter?

There are a number of differences in health across neighborhoods. Having estimates from surveys of residents in small areas can help us understand these differences and public health practitioners to identify areas of high need and develop targeted interventions.

What challenges is small area research for health assessment?

There are a number of challenges for small areas as health indicators have fewer events (e.g., few deaths) or a limited number of residents (e.g., few people with HIV) so you can't rely on, for example, Figure 1 to show five neighborhoods. We want to estimate the proportion of people with diabetes in each neighborhood, but we only have 10 people in the first neighborhood. How can we estimate the number of people with diabetes in the first neighborhood if we only have 10 people in the first neighborhood? Do we have enough participants to estimate the proportion of people with diabetes in the first neighborhood? The answer is no. We need to borrow information from the survey of the other people that have diabetes and use around 700% of data based on the information from the other neighborhoods to estimate the proportion of people with diabetes in the first neighborhood. This is called borrowing information from the other neighborhoods.

What can 'small areas' matter?

Typically, "small areas" are defined as geographic areas that are small enough to be meaningful for public health practice. For example, a block, census tract, or neighborhood. These areas are used to estimate the number of health events or outcomes in the area. These areas are used to estimate the number of health events or outcomes in the area.

Figure 1 illustrates the patient flow through the study. It starts with 1000 patients, divided into 500 with diabetes and 500 without. The 500 with diabetes group is further divided into 300 with diabetes and 200 without. The 500 without diabetes group is further divided into 300 with diabetes and 200 without. The final groups are 300 with diabetes, 200 without diabetes, 300 with diabetes, and 200 without diabetes.



LAC MINISTÈRE

LAC DU HURON HEALTH CENTRE

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Lac du Huron, ON
J9A 1G6

**KNOWLEDGE TO POLICY TRANSITION
Lessons from Latin American Cities**

Knowledge about the links between urban environments and health can inform action to promote urban health and equity, and contribute to the overall health of the population. However, the complexity of the relationship between the environment and health requires more information and policy development to ensure the effective translation of knowledge to policy (KTP). Concrete actions can improve the health of the population through a wide range of policies and other actions to promote KTP transition.

Key messages for the research community

- Conduct research that is relevant to policy concerns, including rigorous evaluation of existing or new policies and interventions.
- Engage with the research community on windows of opportunity and targeting communities and dissemination to current priorities.
- Address the focus, framing, and timing of communication to reflect the needs and capacities of target audiences, while making use of effective knowledge brokers.
- Reduce the barriers to translation of knowledge to policy by increasing the capacity of policy-makers, and include these actors in research design, implementation and dissemination.
- In the event of the political, economic and social factors that influence KTP transition in a given context, identify strategies where possible.

This brief reviews challenges and opportunities related to knowledge to policy transition for urban health in Latin America.




PAHO

World Health Organization

LAC-URBAN HEALTH

Latin American and Caribbean Urban Health

Lessons From PAHO's 10 National (NAP) progress reports on the environment and health

PAHO | 2014

HEALTH IN ALL URBAN POLICIES

Lessons From Latin American NAPs



Positive and transformative urban policies can significantly impact the health of people living in cities. PAHO's 10 National (NAP) progress reports on the environment and health show that the environment affects health, and how urban policies that affect these environments can be leveraged to improve health outcomes.

The Secretariat on America Latina (SALABRA), or "Urban Health in Latin America" Project works to build the capacity of governments to address the health and environmental determinants of health, and about the health of urban populations and Observatories across America.

The Pan American Health Organization (PAHO) promotes and supports local and national-level efforts to improve health and the environment. The Strategy for Health and the Environment is a commitment to the health of people and the environment. The Strategy for Health and the Environment is a commitment to the health of people and the environment. The Strategy for Health and the Environment is a commitment to the health of people and the environment.

Key findings:

- The health approach recognizes that health is determined by much more than healthcare and emphasizes the need for integrated strategies that address the social and environmental determinants of health.
- In order to effectively promote health, cities must address challenges across diverse sectors, including transportation, housing, environment, food environments, education, recreation, energy, and the economy (1).
- In addition to promoting health, a HAP approach can have environmental and social co-benefit health frameworks (2).
- The Observatories of the Sustainable Development Goals (SDGs) within a planetary health framework (3).
- Health and environment approaches can be used to address the health and environment determinants of health and to support policy change within the many areas that influence health and health equity (4).
- Health and environment approaches can be used to address the health and environment determinants of health and to support policy change within the many areas that influence health and health equity (4).
- Health and environment approaches can be used to address the health and environment determinants of health and to support policy change within the many areas that influence health and health equity (4).

Health in All Policies provides a useful framework for promoting health and environmental sustainability in cities.

The Drexel Urban Health Collaborative initiated a Policy Surveillance Project in 2017 that focused on urban centers with active policy debate. This project began by monitoring four cities – Philadelphia, New York City, Washington, DC, and Los Angeles. Policies and programs related to the social determinants of health – including education, the environment, and housing – were the focus. In the second half of 2019, the project was expanded to three cities in the Midwest and South Eastern United States: Birmingham, AL, Louisville, KY, and St. Louis, MO. New project partners, teams of researchers, and students from the University of Alabama, Birmingham, University of Louisville, and St. Louis University, in partnership with local health departments have begun monitoring and surveilling their own cities using the methods developed by the UHC. The expansion of the project and engagement of new academic partners provides increased opportunities to examine urban policy and program trends across the US and allows for comparison among cities.

UHC by the Numbers

- 23 grants submitted totaling 19.1 million in research expenses
- 26 grants housed at the UHC totaling 4.75 million in annual direct grant expenditures
- 7 doctoral students supported on grants
- 5 postdoctoral research fellows supported on grants
- 9 trainees supported on UHC fellowships
- 4 master's depth experiences funded
- 27 total staff at the UHC
- 25 UHC Brown Bag seminars
- 3 Invited Speaker presentations
- 105 Urban Health Summer Institute registrants
- 79 peer-reviewed research publications in 56 different journals
- Over 6,000 social media mentions of UHC publications (and counting!)



COVID-19 Inequities Among Hispanics in U.S. Cities

Funded by NIH and led by Usama Bilal, MD, PhD, MPH, and Mariana Lazo, MD, PhD, ScM, this project aims to create consistent estimates of racial/ethnic inequities in COVID-19 outcomes for Hispanics in the U.S. Creating consistent estimates is key to exploring trends and predictors of these inequities to improve the specific targeting of interventions that may prove key in continuing to control current waves of the pandemic and to prevent future waves.

Cardiometabolic Risk Development and Management in Changing Neighborhoods

Sharrelle Barber, ScD, MPH was recently awarded a 5-year grant, from the National Institutes of Health. The grant will build on the partnership established between the Drexel University Dornsife School of Public Health and the Jackson Heart Study, a cohort study of cardiovascular disease among African Americans in Jackson, MS with an established network and scientific working groups. The research will use state-of-the-art epidemiologic data from the Jackson Heart Study cohort linked to well-characterized neighborhood data over a 20-year period. Barber will lead a research team that will examine how changes in physical and social features of the neighborhood environment influence hypertension and diabetes incidence and management.



Big Cities Health Coalition Data Platform

There is growing interest in generating data platforms that allow comparisons of key outcomes across cities and over time for benchmarking, descriptive and associational analyses, and for potential use in evaluation of policies or interventions. In the context of the broader needs assessment and partnership between the Big Cities Health Coalition (BCHC) and UHC, the UHC was awarded funding from de Beaumont Foundation to redesign and rethink BCHC's data platform (including data elements, process for updating, and potential uses) in ways that maximize value to the BCHC. Led by Ana Diez Roux, MD, PhD, MPH, and Amy Auchincloss, PhD, MPH the project will build on UHC's expertise in analyzing and displaying spatial data.

This study led by UC Berkeley and funded by the Wellcome Trust, will use data gathered by the SALURBAL project (based at the UHC) to investigate how urban environments may influence health in the context of climate change. Specifically the project will examine the impact of temperature on mortality across nearly 400 cities in Latin America, evaluate how green space and other built environment features may buffer adverse health impacts, and use simulation modelling to estimate expected health impacts in the future for cities in the region under various climate change scenarios. Led by Ana Diez Roux, MD, PhD, MPH, the project also includes UHC team members Josiah Kephart, PhD, MPH, and UHC affiliates Brisa Sánchez, PhD, and Leah Schinasi, PhD.

**Racism, Residential Segregation and COVID-19 in Philadelphia: Mobilizing Data for Action During the Pandemic**

This grant is was awarded by the Alumni Network Activation Fund. Led by Sharrelle Barber, ScD, MPH, this project will examine residential segregation as a fundamental driver of the COVID-19 pandemic in urban settings. The proposed project will combine descriptive spatial data analyses and digital storytelling to examine the links between structural racism, residential segregation and COVID-19 pandemic in the city of Philadelphia. Ultimately, this project seeks to shape the narrative around emerging racial inequalities and mobilize data for action with a focus on both short-term and long-term policy solutions.

An Evaluation of Road Traffic Safety Initiatives in Leon, Mexico and Buenos Aires, Argentina

The Partnership for Healthy Cities is a global network of cities funded by Bloomberg Philanthropies that are working to reduce noncommunicable diseases and injuries. The goal for each city is to implement a proven intervention, as identified through WHO's "best buy" policies and "best practice" road safety interventions. Both Leon, Mexico and Buenos Aires, Argentina implemented new or improved policies to reduce drunk driving, including expanding sobriety checkpoints and implementing a mass media campaign about the policies. With funding from Bloomberg Philanthropies, and building on the work of the SALURBAL project, Alex Quistberg, PhD, MPH and the project team are evaluating the impact of these policies on road traffic injuries and deaths using insurance claims, police reports and death records combined with other data on the built and social environment.



Research Highlights

Ione Avila-Palencia, PhD, MPH, was a co-author on a publication in the *Journal of Transport Policy* on “What explains public transport use? Evidence from seven European cities.”

Sharrelle Barber, ScD, MPH, co-wrote a blog post for the Interdisciplinary Association for Population Health Science about racism in the time of COVID-19 and the history of systematic racism and illness. She was also quoted in numerous media sources including The New York Times, The Philadelphia Tribune, USA Today, and the Smithsonian, about African Americans facing alarming and disproportionate rates of coronavirus infection.

Usama Bilal, MD, PhD, MPH, led a publication on “Life expectancy inequalities within six large Latin American cities in the SALURBAL study: an ecological analysis” in *The Lancet Planetary Health*. He was quoted in numerous media sources including The Philadelphia Tribune, The New Yorker, The Washington Post, and Rolling Stone, on the topic of inequities in testing and COVID-19 outcomes in cities.

Amy Carroll-Scott, PhD, MPH, led the Housing and Health Equity Day of Action at American Public Health Association Annual Meeting in Philadelphia that included an exhibitor open house, a speaker panel, and a social media campaign to support best practice programs that are keeping Philadelphians in their homes.

Allana Forde, PhD, published a paper entitled “Discrimination and Hypertension Risk Among African Americans in the Jackson Heart Study” examining how lifelong discrimination is associated with greater risk of high blood pressure in African Americans. She is now a Stadtman Tenure-Track Investigator at NIMHD, funded by the NIH Distinguished Scholars Program.

Jana Hirsch, PhD, published an article in the *American Journal of Public Health*, “Health and Health-Related Resources in Newly Designated Federally Qualified Opportunity Zones: United States, 2012–2016”, that studies the social, economic, or business outcomes of this federal legislation.

Josiah Kephart, PhD, MPH, has a forthcoming publication in the *Journal of Urban Health*, “Air pollution in Latin American cities: Levels of pollution, population exposure to pollution, and city characteristics linked to pollution.”

Jennifer Kolker, MPH, Kari Moore, MS, and Jana Hirsch, PhD, MES, joined Raynard Washington, PhD, chief epidemiologist at the City of Philadelphia Department of health to discuss “Linking Local Data for Targeted Action Among Philadelphia’s Most Vulnerable Neighborhoods,” highlighting discoveries from the DSPH/Department of Health collaborative report, “Close to Home: The Health of Philadelphia’s Neighborhoods,” highlighting disparities in life expectancy and health outcomes across Philadelphia.

Ana Martínez-Donate, PHD, and Mariana Lazo, MD, PhD, ScM, received a COVID-19 supplement from NICHD for a R21 grant titled "CRISOL: Building Community Resilience and Integrating Efforts to Understand and Address Syndemic Health Conditions Afflicting Young Latino Immigrants."

Félice Lê-Scherban, PhD, MPH, organized a session on “Using electronic health record data linkages to promote health equity” at the APHA Annual Meeting in Philadelphia in November 2019.

Jingjing Li, PhD, MS, led a publication with **Amy Auchincloss, PhD, MPH**, **Kari Moore, MS**, and **Ana Diez Roux, MD, PhD, MPH** on “determinants of residential preferences related to built and social environments” in the *Journal of Urban Health*.

Pricila Mullachery, PhD, MPH, worked on research examining the urban scaling of health outcomes, mapping existing evidence to understand factors driving differences in health across cities.

Ana Ortigoza, MD, PhD, MPH, MS, received an International Presentation Award from the Office of Global Engagement and Education Abroad at Drexel University for her presentation on the "Relationship between PM2.5 and under- five, infant, and child mortality in Latin American cities: evidence from the SALURBAL study."

Alex Quistberg, PhD, MPH, spoke on the “Healthy Impact of Living in a Metrópolis” at the Curso Internacional de Medicina Interna Sociedad 2019 in Lima, Peru. He also co-led a project evaluating the Partnership for Healthy Cities in Latin America funded by Bloomberg Philanthropies.

Claire Slesinski, MSPH, and Ana Ortigoza, MD, PhD, MPH, MS, presented their work on SALURBAL at an “International Urban Health Workshop for Latin America and the Caribbean” organized by the International Science Council” Regional Office for Latin America and the Caribbean (ISC-ROLAC) in San Salvador, El Salvador.

Ivana Stankov, PhD, presented “Leveraging network and cross-impact balance (CIB) analyses to understand the influence of transportation and food systems on health in Latin America,” at the Latin American Conference on Complex Networks at the Universidad de Los Andes in Cartagena, Colombia.



Doctoral Fellowship Program

The UHC Doctoral Fellowship program provides funding for incoming Dornsife School of Public Health doctoral students for up to two years. These fellowships include tuition remission, resources for travel and supplies and annual stipend to support research in urban health under the mentorship of faculty research sponsors across the Dornsife School of Public Health.

Doctoral fellows funded in 2019-2020



Catalina Correa Salazar, MS

Mentor: Ana Martínez-Donate
Department of Community Health and Prevention

Catalina Correa Salazar worked on the UnityPhilly project, which aims to decrease overdoses by training participants in overdose prevention and testing the feasibility of using an app for participants to call for help, and access naloxone and valuable information when they need it. Catalina's current research examines migrant flows in three border cities and data collection on migrant's health status and health care access in U.S. and Mexico.



Nishita Dsouza, MPH

Mentor: Ana Martínez-Donate
Department of Community Health and Prevention

Nishi Dsouza is examining collaborations among Latino immigrant-serving organizations in Philadelphia to understand perceptions of the availability, accessibility, and accommodation of health and social resources available. She aims to identify key linkages and recommendations.



Dustin Fry, MPH

Mentor: Gina Lovasi
Department of Epidemiology and Biostatistics

Dustin Fry's research examines physical and social disorder in urban neighborhoods, physical activity and recreation among children in communities of color, and evaluations of clean-air legislation and safe-injection sites.

Master's Fellowship Program

The UHC Master's Fellowship provides a research stipend to outstanding master's degree students who work in the field of urban health under the supervision of a faculty mentor. In 2018-2019 there were two first-year and one second-year UHC Master's Fellows.

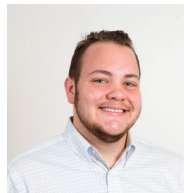
Master's fellows funded in 2019-2020



Rachel Brown MPH '21,
Community Health and Prevention

Mentors: Amy Carroll-Scott, PhD, MPH,
and Jennifer Kolker, MPH

Rachel works with on projects for the Policy and Community Engagement Core, including the Policy Surveillance Project and Big Cities Health Coalition. Brown's work at the UHC brings together her interests in urban health inequities and developing community partnerships.



Jay Budd MPH '21,
Community Health and Prevention

Mentors: Félice Lê-Scherban, PhD, MPH,
and Amy Carroll-Scott, PhD, MPH

Jay Budd is a member of the team working on the West Philly Promise Neighborhood grant. This project intends to create a cradle-to-career continuum of support for children who live or attend school in the Promise Zone while creating a system of service linkages focused on educational, health, and behavioral health services and programs.

Student's reflections on the UHC Fellowship experience:

"...The fellowship at the UHC was a great experience to get exposure to topics that I was interested in like Latin American social determinants of health, urban health and even planetary health. The experience of knowing the amazing scholars that are part of the UHC efforts and of the SALURBAL project was definitely transformative..."

"...Being in a community of talented researchers who are passionate about urban health and dedicated to improving communities has both helped me to grow professionally and to feel connected to a shared purpose. I am grateful for my time as a UHC fellow..."



Chahita Kanungo MPH '21,
Environment and Occupational Health

Mentor: Leah Schinasi, PhD, MPH

Chahita Kanungo works on a project that aims to characterize the urban landscape for an analysis of heat and mortality by using google street view. Her research interests include understanding the impact of various environmental factors and awareness mechanisms on public health.



Michelle Goodwin MPH '21,
Health Management and Policy

Mentor: Joan Bloch, PhD, CRNP, FAAN and Gina Lovasi, PhD, MPH

Michelle Goodwin works to address Philadelphia's high infant mortality rates through a city-wide collective impact initiative. Her research interests focus on system inequities in health care access and services for mothers and their children.



Kerry Miley MPH '21,
Community Health and Prevention

Mentor: Alexis Roth, PhD, MPH

Kerry Miley works on two studies focused on preventing HIV transmission and overdose among people who inject drugs. She is passionate about the overlapping issues of drug overdose, housing instability, infectious disease, and incarceration.



Duong (Tina) Nguyen MPH '21,
Health Management and Policy

Mentor: Jane Clougherty, MSc, ScD

Duong (Tina) Nguyen is involved in research on an air monitoring network campaign to inventory and map available data on air pollution emissions across the City of Philadelphia for epidemiological and policy purposes.

Depth Experience Funding

The UHC provides student funding to support select Depth Experience placements for students wishing to focus on urban health as part of the practical experience required of all first-year MPH students. The Depth Experience awardees complete a hands-on 120-hour public health experience.

Depth Experiences funded in 2020

Reem Shair, MPH '21, worked with the Jefferson University EPIC@Jeff program on testing and training related data analysis of the Electronic Health Records system being implemented in new locations across Pennsylvania.

Celina Koh, MPH' 21, spent the summer with the Environmental Protection Agency's (EPA) Region 3 Office of Communities, Tribes, and Environmental Assessment to assess key pollution exposures and social characteristic indicators in Philadelphia.

Maureen Klopp, MPH '21, worked with the Environmental Protection Agency (EPA) where she will be focusing on Opportunity Zones to help better characterize community health status and environmental-health risks.

Tobechukwu Ezech, MPH '21, assisted the Diaper Bank of the Belmont Alliance Civic Association (BACA) to improve the way it collects, analyzes and presents data.

Student's reflections upon completing a UHC-funded depth experience:

"My project increased scientific knowledge of the relationship between environmental stressors, urban greenspace, and health disparities by quantifying, identifying, and assessing high index areas and potential barriers to government stakeholders and community organizations...Throughout my experience, I had the opportunity to collaborate, present, and network with scientists and experts... my lasting impressions from my depth experience were fantastic! I gained valuable knowledge about the workings of a government sector position which solidified my interest for a government career."

Dissertation Funding Awards

Catalina Correa-Salazar, MS, PhDc, has been awarded funding to support her proposal “Crossroads in Two Colombian Cities: Urban Health Disparities and Human Rights of Migrant and Refugee Women in the Midst of a Humanitarian Crisis.”

Valerie Raziano, MPH, PhDc, has been awarded funding to support her proposal “Maternal and Child Immunization Improvement: Assessments of Policy and Prenatal Care.”

Working Groups

To promote innovative activities and foster collaboration, the Urban Health Collaborative funds working groups. Working groups engage in scholarly activities and are an interdisciplinary collaboration that includes faculty and trainees. Working groups include Drexel faculty and graduate students as well as staff, postdoctoral fellows, visiting scholars/faculty, or external participants. Projects were each awarded \$15,000.

Addressing Urban Community Violence Working Group

The goal of the Community Violence Working Group is to bring together researchers across the University and other key institutions in Philadelphia to develop new ways of understanding and intervening to decrease community violence in urban neighborhoods. A public health framework which considers the underlying causes and social determinants of health is critical to enacting short-term and longer-term interventions to address community violence.

Maternal and Child Health Research, Training, and Practice Collaborative

The Maternal and Child Health Research, Training, and Practice Collaborative is a collaboration between the Drexel UHC, Dornsife School of Public Health, St. Christopher’s Hospital for Children and the Children’s Hospital of Philadelphia (CHOP) to support a broader agenda of improving Maternal and Child Health outcomes in the City of Philadelphia. This working group will build upon existing relationships between Drexel and CHOP, led by UHC and PolicyLab but inclusive of broader colleagues, and serve our mutual goals of reducing health disparities for women and children, developing research to inform policy and action, and partnering with the City of Philadelphia and the Philadelphia Department of Public Health in achieving these goals.

Migration, Ethnicity, Race, and Health Working Group

The Migration, Ethnicity, Race, and Health Working Group is a group of Dornsife School of Public Health researchers and graduate students interested in the role that migration, ethnicity, and race play as determinants of health and in developing and evaluating programs and policies to promote the health of immigrants and ethnic/racial minorities, particularly in urban settings. Representing the four DSPH departments, the group will advance the study of Migration, Ethnicity, Race and Health and focus on public health issues affecting immigrant, ethnic, and racial minorities.



The Urban Health Collaborative is committed to engaging trainees at all levels as they advance their careers in urban health and supports many research trainees working on grant-funded projects.

Postdoctoral Research Fellows in 2019-2020

Ione Avila-Palencia, PhD, MPH
Allana Forde, PhD, MPH
JingJing Li, PhD, MS
Josiah Kephart, PhD, MPH
Pricila Mullachery, PhD, MPH
Ana Ortigoza, MD, PhD, MPH, MS
Alina Schnake-Mahl, SCD, MPH

Doctoral Research Fellows in 2019-2020

Ariela Braverman-Bronstein, MD, MPH
Janene Brown, MPH
Amie Devlin, MPH, MA
Zach Fusfeld, MPH
Samantha Joseph, MPH
Kevin Martinez-Folgar, MD
Bricia Trejo, MPH



Visiting Scholars and Postdoctoral Fellows

Visiting scholar and postdoctoral fellows visit the UHC from around the world, engaging with faculty on research projects and fostering global collaborations. Scholars visiting at the UHC in the past year include:

Julia Diez, doctoral candidate in epidemiology at the University of Alcalá, Madrid, Spain.

Eliza Kinsey, postdoctoral research scientist in epidemiology, Columbia University, New York, US

Elena Plans Beriso, Resident in Preventive Medicine and Public Health, Madrid Health System, Madrid, Spain

Dèsirée Vidaña-Pérez, researcher in epidemiology, School of Public Health at the National Institute of Public Health Mexico, México City, Mexico

Undergraduate Co-op Funding

The UHC works to engage undergraduate students in various activities. In the past year, the UHC supported three undergraduate co-op placements.

Taylor Andrews, Fall and Winter 2019 undergraduate co-op, third-year game design and production student with a minor in fine arts supported UHC with graphic design and communications as a communications assistant.

Ben Murray, Spring and Summer 2020 undergraduate co-op, third-year interactive digital media student assisted with graphic design and communications as a communications assistant.

Lauren Patrice, Fall and Winter 2020 undergraduate co-op, third-year graphic design student has recently joined the UHC as communications assistant, specializing in design.

Welcoming 2020-2021 GATHER Trainees

In the past year, the UHC was pleased to graduate the first cohort of GATHER trainees and welcome a second group. The Global Alliance for Training in Health Equity Research (GATHER) is a T-37 training grant from the National Institute on Minority Health and Health Disparities at the Drexel Dornsife School of Public Health. Trainees from Drexel or other universities advance their careers in global health equity through mentored and skills-based research training.

The 2019-2020 cohort included two postdoctoral fellows and two doctoral fellows:

- **Diana A. Burnett, PhD** in Anthropology, University of Pennsylvania
- **Yan Wang, PhD** in Biostatistics, University of California, Los Angeles
- **Marina Armendariz, MS, PhD Candidate**, Biobehavioral Health, The Pennsylvania State University
- **Rosie Mae Henson, MPH, PhD Candidate**, Health Services Research and Policy, Drexel University Dornsife School of Public Health
- **Regina Y. Fuller, MA, PhD Candidate**, Educational Policy Studies, University of Wisconsin-Madison
- **Elizabeth H. Morgan, MEd, PhD Candidate**, Human Development, University of California, Davis

The 2020-2021 cohort included two postdoctoral fellows and two doctoral fellows:

- **Cinthya Alberto, PhD**, in Health Services Research and Policy, Drexel University Dornsife School of Public Health
- **Amilcar Matos-Moreno, PhD Candidate**, in Epidemiology, University of Michigan
- **Adedotun Ogunbajo, PhD**, Behavioral & Social Health Sciences, Brown University
- **Kristefer Stojanovski, PhD Candidate**, Health Behavior & Health Education, University of Michigan

Urban Health Summer Institute

The Urban Health Collaborative held the fifth Urban Health Summer Institute in June 2020. This was the first year that the Summer Institute was hosted online. This year's institute attracted 105 participants from across the country working in diverse fields: health departments, healthcare institutions, non-profits and community-based organizations, and other academic institutions.

Courses from the 2020 Urban Health Summer Institute:

- Confronting Organizational Stress as the Effects of the COVID-19 Pandemic Unfold
- Introduction to Multilevel Analysis for Urban Health Research
- Big Data Uses in Public Health: Structuring, Analyzing, and Visualizing Across Data Sources
- Introduction to GIS
- Data Visualization in R for Urban Health
- Policy Analysis: Applied and Practical Approaches to Big and Small Data
- Introduction to Bayesian Analysis for Public Health

We heard feedback from participants in the summer institute:

"The course was very hands-on and the instructors were knowledgeable and applied the coursework to real life events"

"Instructors were engaging and made the class very participatory."

"These methods will be used in my current and future research."

"I can apply the course material to my daily work"

"The instructor was very knowledgeable and clearly has a lot of practical experience. The examples were all excellent."

DORNSIFE SCHOOL OF PUBLIC HEALTH AT DREXEL UNIVERSITY

Dornsife's mission is to provide education, conduct research, and partner with communities and organizations to improve the health of populations. Dornsife views health as a human right and has a special commitment to improving health in cities, eliminating health disparities, and promoting health in all policies.

The UHC and the Dornsife School of Public Health are committed to creating an environment that supports intellectual exchange and debate and promotes diversity and inclusion in all our activities.

Partner with us

Knowledge generation and action cannot happen without partnerships. At the UHC we engage with communities, governments, nonprofits, and other stakeholders locally and globally to conduct research and translate evidence into effective action.

The Urban Health Collaborative is a member of the National Neighborhood Indicators Partnership, coordinated by the Urban Institute in Washington, DC and a member of the International Society on Urban Health.



DREXEL UNIVERSITY
**Urban Health
Collaborative**
Dornsife School of Public Health

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