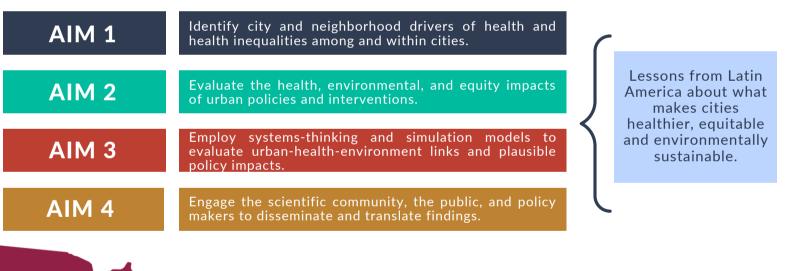


#### URBAN HEALTH IN LATIN AMERICA THE SALURBAL PROJECT

The Salud Urbana en América Latina or Urban Health in Latin America (SALURBAL) Project brings together over **200 professionals** from multiple disciplines to study the ways urban environments and urban policies impact the health of city residents throughout Latin America. Project findings inform policies and interventions to create healthier, more equitable, and more sustainable cities worldwide. SALURBAL is funded by the Wellcome Trust and is the main initiative of the Urban Health Network for Latin America and the Caribbean (LAC-Urban Health).

Learn more about LAC-Urban Health here: bit.lv/LAC-UHNetwork LAC-URBAN HEALTH Urban Health Network for Latin America and the Caribbean

#### SALURBAL PROJECT AIMS



#### **OUR TEAM**

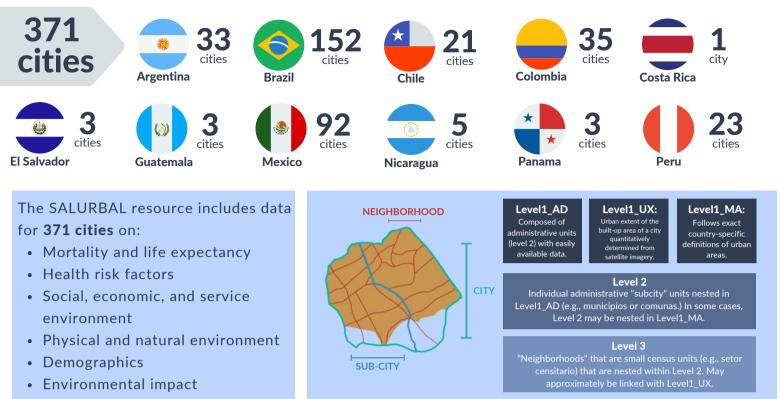
SALURBAL is implemented by Drexel University and 14 institutional partners across the United States and Latin America:

- Drexel University, Philadelphia, Pennsylvania, USA
- Universidad Nacional de Lanús, Buenos Aires, Argentina
- Universidade Federal de Minais Gerais. Belo Horizonte. Brazil
- Universidade de São Paulo, São Paulo, Brazil
- Fundação Oswaldo Cruz, Salvador de Bahia, Brazil
- Fundação Oswaldo Cruz, Rio de Janeiro, Brazil
- Universidad de Chile, Santiago, Chile
- Pontificia Universidad Católica de Chile, Santiago, Chile
- Universidad de los Andes, Bogotá, Colombia
- Instituto Nacional de Salud Pública, Mexico City, Mexico
- Universidad Peruana Cayetano Heredia, Lima, **Peru**
- Instituto de Nutrición de Centro América y Panamá (INCAP), Guatemala City, Guatemala
- Pan American Health Organization (PAHO), Washington D.C., USA University of California at Berkeley, Berkeley, California, USA
- Washington University in St. Louis, St. Louis, Missouri, USA

## SALURBAL DATA

The SALURBAL data resource includes hundreds of variables on all cities with 100,000 residents or more in **11 countries** in Central and South America.

#### bit.ly/SALURdata



Variables are available at the city, sub-city, neighborhood, and individual levels, allowing for inter- and intra- urban comparisons and multilevel analysis of health impacts.

## **POLICY EVALUATION STUDIES**

SALURBAL is evaluating the health and environmental impacts of six city and neighborhood-level policies and interventions over time:



	TransMiCable Bogotá, Colombia	Evaluation of a new cable car's impact on the health and wellbeing of residents of Ciudad Bolívar, located in the outskirts of Bogotá.
۲	Speed limits Mexico City, Mexico	Evaluation of reduced speed limits and enhancement of speed limit enforcement, implemented as a part of the country's Vision Zero strategy.
۲	EcoBici Mexico City, Mexico	Evaluation of a large-scale bike share program Mexico City and changes in cycling infrastructure in response to the COVID-19 pandemic.
*	RUCAS Viña del Mar and Santiago, Chile	Evaluation of the Programa de Regeneración de Conjuntos Habitacionales (Housing Complex Regeneration Program) and its impact on residents' health and wellbeing.
0	Vila Viva Belo Horizonte, Brazil	Evaluation of urban redevelopment initiatives' impact on mortality, asthma, mosquito-borne disease, and NCD risk factors in informal settlements.
	Health warnings on processed foods Lima, Peru	Evaluation of Peruvian warning labels on ultra-processed foods, including an assessment of food choice among adolescents and industry response to the new legislation.

# SYSTEMS MODELING

SALURBAL researchers have developed two agent-based models to simulate realworld scenarios and understand the impacts of food and transport policies. These models were informed by workshops held with diverse stakeholders where participants mapped out the complex connections between urban policies, food and transport-related decisions and behaviors, and health in cities throughout the region.



## **CLIMATE CHANGE AND URBAN HEALTH**

- Since 2020, SALURBAL researchers funded by Wellcome Trust's Climate Change and Health Awards have led a study documenting the impacts of heat on mortality and the buffering effects of green spaces and socioeconomic conditions.
- Key findings to-date highlight the impacts of extreme temperatures on mortality, especially among older adults, and the role of extreme heat in determining low birthweight.
- Beginning in 2023, our team will develop additional work in this area, including:
  - An assessment of existing knowledge, research gaps, and policy questions surrounding climate and health across the region;
  - The expansion of our data resource to support understanding of the health and health equity impacts of climate change in urban areas; and
  - Capacity building to engage existing and new partners and support coalition building between scientists, NGOs, and government agencies working in this area.

bit.ly/SALURheat

### **POLICY ENGAGEMENT AND DISSEMINATION**

Our team develops materials and activities to disseminate our findings broadly to a range of audiences, promote new ways of thinking about urban health, and ensure the policy relevance of our research.



## SALURBAL RESULTS: HIGHLIGHTS

To-date, the SALURBAL team has produced **more than 100 publications, including peer-reviewed journal articles, policy briefs, and data briefs.** All publications are available to download and can be accessed on our website.



bit.ly/SALURpubli

#### Key findings to-date include:

City-level life expectancy varies across countries and within countries by as much as 7-10 years. Better city-level education, water access, and sanitation and less overcrowding are associated with greater life expectancy and a relatively lower proportion of deaths from communicable, maternal, prenatal, and nutritional conditions, and with a higher proportion of deaths from cancer, cardiovascular disease, and other noncommunicable diseases (**Bilal et al. 2021**, **Nature Medicine**).

Characteristics of the urban built environment are related to road traffic mortality. Road traffic mortality is lower in cities with higher population density, higher street connectivity, mass transit systems such as a subway or Bus Rapid Transit, and with less isolated built-up areas (*Quistberg et al. 2022, Lancet Planetary Health*).

Cities in Latin America are experiencing increased motorization. Development fragmentation, urban form complexity, and circuity of street networks are associated with greater increases in car rates (*Delclòs-Alió et al. 2023, Travel Behavior and Society*).

Longer commuting, commuting by personal vehicle, and poor access to transit are associated with more depressive symptoms (*Wang et al. 2019, Journal of Transport & Health*). Vegetable consumption is lower, and sugar sweetened beverage consumption is higher among those who experience greater travel delays (*Guimarães et al. 2022, International Journal of Environmental Research and Public Health*).

Lower education level is associated with higher rates of diabetes and obesity among women. In men, these associations are weaker and vary by country and city socioeconomic development, with inverse associations emerging as city socioeconomic development increases (*Braverman et al.* 2021, Journal of Epidemiology & Community Health; Mazariegos et al. 2021, Public Health Nutrition).

Racial inequities in self-rated health are larger in cities that are more segregated (Guimarães et al. 2022, American Journal of Epidemiology).

More than half of the people in Latin American cities live in areas with air pollution levels that exceed World Health Organization guidelines. Larger cities and cities with higher GDP, higher motorization, higher congestion, lower population density, less greenness, and higher intersection density have higher levels of PM2.5 (Gouveia et al. 2021, Science of the Total Environment).

Nearly 6% of all deaths and 10% of deaths from respiratory infections can be linked to extreme temperatures. On very hot days, a one-degree Celsius increase in temperature is associated with a 5.7% increase in the risk of premature death (*Kephart et al. 2022, Nature Medicine*). Higher temperatures throughout gestation are associated with lower birthweight (*Bakhtsiyarava et al. 2022, Environment International*).









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