

## Urban Health Inequalities

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### DESCRIPTION

The GIUH is a consolidated group of researchers, with extensive expertise in collective health, social determinants of health, and environmental health/urban planning/housing, and with a long itinerary in research through national and international groups. The main objectives of the group are to deepen the knowledge of health and the determinants of health in urban areas, as well as to analyze their unequal distribution in population groups. In addition, it seeks to assess the impact of policies aimed at reducing health inequalities. Thus, the group's activity is located in the field of social and environmental epidemiology, where it works to make visible both inequalities and their causes in the formulation of inequitable policies, looking for points of intervention for action.

### MAIN LINES OF RESEARCH

- Health effects and its determinants of different environmental factors such as air pollution, environmental noise, or climate change, as well as other characteristics of the urban environment. Dr. Laia Font, Marc Marí.
- The relationship between housing and health, such as the mechanisms and mediators between residential insecurity, energy poverty, and health, and evaluate housing policies, such as cooperatives in cession of use. Dr. Ana Novoa, Dr. Juli Carrere.
- Evaluation of health impacts of urban planning policies and other policies aimed at reducing air pollution and environmental noise (e.g. Eixos Verds, Protegim les escoles), including road sa-



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fety, as well as policies for mitigating and adapting to climate change (e.g. climate shelters). Dr. Catherine Pérez, Dr. Anna Gómez.

- Evaluation of programs to promote equitable and healthy relationships on the reduction of gender violence and on improving the health of children, adolescents, and young people in schools from an intersectional perspective. Dr. Glòria Pérez, Dr. Olga Juárez.
- Inequality in the field of prevention (vaccines, early detection, etc.) and the promotion of health and well-being, and to develop and evaluate interventions aimed at preventing, and mitigating them. Dr. Èlia Díez.
- Evaluation of programs of community health implemented at neighborhood level (within the framework of Barcelona Salut als Barris) aimed at reducing social inequalities in health and analyzing the mechanisms that influence the effectiveness of the programmes. Dr. Maribel Pasarin, Dr. Ferran Daban.
- Health effects of determinants to safe, healthy, and sustainable eating, and evaluate the results, consistency, and effectiveness of control and surveillance programs and interventions related to food and marketing, production, and consumption environments. Dr. Maica Rodríguez, Samuel Portaña.
- Relationship between working conditions and health, including lack of access to work, job insecurity, or involuntary reduced working hours, and time poverty, among other situations. This line includes both paid work and unpaid domestic and care work Dr. Imma Cortés, Dr. Lucía Artazcoz.
- Some areas that are cross sectional to all areas such as social inequalities in health according to the different axes of inequality. It is the line with the longest trajectory, with the group having extensive experience in the in-depth study of health inequalities according to gender, social class, territory, age, and ethnicity, as well as the effect of the intersection between the different axes. It highlights the activity in deepening the social construction of social class, its measurement, and its impact on health and health inequalities. It also includes extensive experience in gender inequalities in health and their intersection with social class. Dr. Borrell, Dr. Lucía Artazcoz.

#### SCIENTIFIC CHALLENGES

- Understanding and addressing health inequalities. The persistence of health inequalities based on various socio-demographic factors presents a scientific challenge. Effective interventions hinge upon a comprehensive understanding of the intricate interplay between social determinants of health and health outcomes.
- Harnessing digitalization, data accessibility, and big data analytics. The scientific community faces the challenge of leveraging digitalization and accessing vast datasets for meaningful analysis. Overcoming barriers to data accessibility, along with the development of sophisticated analytical tools, is imperative for extracting actionable insights from the increasing volume of health data.
- Promoting multi-disciplinary collaboration in public health research. The complexity of public health issues necessitates interdisciplinary collaboration to elucidate multifaceted challenges. Bridging disciplinary divides and fostering collaboration across research groups are critical scientific endeavors for addressing the intricacies of public health challenges effectively.
- Translating research findings into practical solutions. One of the foremost scientific challenges in public health research is the translation of empirical findings into tangible and effective interventions and policies. Bridging the gap between research and practice demands innovative strategies and robust implementation frameworks to ensure the seamless integration of evidence-based solutions into real-world settings.
- To develop protein nanopharmaceuticals for the activation of the immune system against cancer as a more effective nano-immuno-oncology approach more than current treatments.

#### ACTIVE GRANTS

- Díez David, Èlia. Efectividad de una intervención sobre la retención vacunal entre las enfermeras pediátricas y los pediatras: Un estudio de metodología mixta. PI21/01710. Instituto de Salud Carlos III (ISCIII). Duration: 2022-2024. 141.570,00 €.
- Novoa Pardo, Ana. Impacto en salud y bienestar de la vivienda cooperativa en cesión de uso.



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PI18/01761. Instituto de Salud Carlos III (ISCIII). Duration: 2019-2023. 75.020,00 €.

- Perez Gonzalez, Catherine. Injury Surveillance System. Partnership for Healthy Cities. Non-competitive. Duration: 2022-2023. 38.800,00 €.

#### GRANTS AWARDED

- Novoa Pardo, Ana & Perez Gonzalez, Catherine. INSeguridad residencial e infancia: impacto en salud y propuesta de abordajes para la Protección y empoderamiento de la infancia afectada (INSPIRA). PI23/01634. Instituto de Salud Carlos III (ISCIII). Duration: 2024-2026. 140.000,00 €.
- Juarez Martinez, Olga & Perez Albarracin, Gloria. Evaluación de una estrategia de promoción de relaciones saludables i equitativas en el contexto escolar). PI23/01636. Instituto de Salud Carlos III (ISCIII). Duration: 2024-2026. 50.000,00 €.

#### DOCTORAL THESES DEFENDED

- Forcadell i Díez, Lluís. Saludables i equitatives: disseny i avaluació d'intervencions socioeducatives de promoció de les relacions saludables i equitatives en contextos d'educació formal. 21/12/2023. Universitat Pompeu Fabra. Supervisors: Pérez Albarracín, Glòria; Juárez Martínez, Olga. <http://hdl.handle.net/10803/689857>.

#### SCIENTIFIC PRODUCTION

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- Bartoll X, Palència L, Calvo MJ, Pérez K. Tendencias y desigualdades en la esperanza de vida (en buena salud) por barrios durante la epidemia de COVID-19 en Barcelona. *Gaceta Sanitaria*. 2023; 37:102267. DOI:10.1016/j.gaceta.2022.102267. PMID:36347169. IF:1,900 (Q3/8D). Document type: Article.
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- Canto MV, Guxens M, García A, López MJ, Marí M, García J, Ramis R. Air Pollution and Birth Outcomes: Health Impact and Economic Value Assessment in Spain. *International Journal of Environmental Research and Public Health*.



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