

The value and impact of embedded implementation research: insights from Latin America and the Caribbean

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Embedded research is carried out as an integrated and systematic part of health decision and policy making and implementation. (1) It means continuous collaboration between decision makers, researchers, and communities. Embedded research focuses on systems-level challenges and illuminates context-specific factors for real-world health programs, policy and system decisions. It improves ownership and implementation.(2) With this in mind, a joint initiative between the Alliance for Health Policy and Systems Research (Alliance HPSR), the Pan American Health Organization (PAHO), and the World Health Organization (WHO) Special Programme for Research and Training in Tropical Diseases (TDR) issued an open call for researchers and policy and decision makers to identify challenges requiring embedded research to accelerate progress towards the SDGs in the Latin American and Caribbean (LAC) region and provided technical cooperation throughout the process. Following an open call for applications and reviewing more than 200 research proposals, 13 teams from 11 low- and middle-income countries in the LAC region were selected from Argentina, Bolivia, Brazil, Colombia, Dominican Republic, Ecuador, Guatemala, Guyana, Haiti, Paraguay, and Peru. This supplement of the Pan American Journal of Public Health presents the findings of these embedded implementation research studies. It showcases the value of embedded research and details the impact of this type of work with concrete examples. The results of the papers presented in this supplement identify an increasingly recognized need to focus on developing capacity to collaborate through multisectoral action to achieve the SDGs.

Building on methodological innovations in the WHO Strategy on Health Policy and Systems Research (2012) and the WHO World Health Report on Research for Universal Health

Coverage (2013) as well as previous collaboration between PAHO, the Alliance HPSR and TDR, embedded research as an approach is increasingly valued by policymakers to conceptualize and implement health interventions. The ongoing COVID-19 pandemic exemplifies the close links between policy and research (3) and the need for much greater interdisciplinarity (4). Summarizing their work as a technical support center, Becerril-Montekio et al. maintain that this experience and the results explained in this special issue confirm the value of such initiatives. Mariani et al. evaluate primary health care functions from the perspective of patients with tuberculosis from slums in the city of Buenos Aires, Argentina, and provide insights on how these services might be improved (5). In another example, Polanco-Pasaje et al. evaluate tuberculosis care in Colombia's indigenous population and identify existing gaps (6).

These research studies also document how embedded research can impact and improve policy implementation. For example, Diez-Canseco et al. analyze the implementation of mental health centers in Peru, and highlight their impact on local communities (7). Barreto et al. detail how research improved the development of Brazil's national childbirth guidelines; more specifically, research helped identify and overcome barriers for implementation (8) and detail how professional training and culture, social culture, and political as well as management issues are critical points for consideration (9).

The embedded research studies in this supplement also reveal the critical importance of engaging communities and cultivating capacity to collaborate with other sectors to achieve health goals. Laureano-Eugenio et al. reviewed Guatemala's Healthy Municipalities strategy to improve its implementation; they documented potential for improvements in terms of



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promoting and strengthening social participation as well as insufficient investments in working on the social determinants of health (10). In another example, Sacoto et al. studied an initiative focused on preventing non-communicable diseases in Ecuador; they found that insufficient institutionalization could limit the effort's sustainability and that the initiative needs to improve its coordination with other sectors and actors (11). To codify and improve how this is done, as others have noted, there is continued need for supporting the sharing of experiences in multisectoral action beyond health (12).

While there is still room for greater efforts to bridge the gap between researchers and policy and decision makers, papers in this collection demonstrate the value and impact of embedded research. This supplement also highlights continuing challenges, like working with communities and considering multisectorality to advance health goals. To advance this type of work, new approaches are required for supporting research. There is a need to move away from ad-hoc research projects and instead move towards supporting a greater emphasis on developing longer-term and more collaborative partnerships to enable embedded research. The Alliance for Health Policy and Systems Research, the World Health Organization Special Programme for Research and Training in Tropical Diseases and the Pan American Health Organization are committed to moving in this direction.

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