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EDUCATION AND TRAINING

1983 *Doctor in Medicine & Surgery.* Universidad del Norte, Barranquilla, Colombia

1989 *Master of Science in Health Policy & Management.* Harvard University, School of Public Health, Boston, Massachusetts

PROFESSIONAL EMPLOYMENT

- 2023- present Director, Gill-Lebovic Center for Community Health in the Caribbean and Latin America
Milken Institute School of Public Health - George Washington University - Washington, DC, USA
- 2019- present *Associate Professor, Global Health Systems*
Milken Institute School of Public Health - George Washington University - Washington, DC, USA
- 2016-2019 *Research Professor, Department of Global Health*
Milken Institute School of Public Health - George Washington University - Washington, DC, USA
- 2014-2016 *Associate Director, Social System Design Lab and Associate Director and Faculty Scholar, Global Health Center at the Institute for Public Health*
Washington University in St. Louis - St Louis, MO, USA
- 2009-2014 *Senior Program Officer - Global Development Program*
The Bill & Melinda Gates Foundation - Seattle, WA, USA
- 1998-2008 *Senior Social Sector Specialist (1998-2003; 2007-2008)*
Senior Country Coordinator - Dominican Republic (2003-2005)
Inter-American Development Bank - Washington, DC, USA
- 2005-2007 *Director, Latin America & the Caribbean Team*
Deputy Director of Operations (a.i.)
The Global Fund to Fight HIV/AIDS, TB and Malaria - Geneva, Switzerland
- 1994-1996 *Professor of Health Policy and Program Director- Graduate Program in Health Management*
Universidad del Norte - Barranquilla, Colombia
- 1992-1993 *Vice-Minister of Health*

	Ministry of Health, Republic of Colombia - Bogota, Colombia
1990-1992	<i>State Secretary of Health</i> State of Atlántico - Barranquilla, Colombia
1989-1990	<i>Executive Director “Fundacion Centro Medico del Norte” and Professor, Graduate Program in Health Management</i> Universidad del Norte - Barranquilla, Colombia
1984-1987	<i>Instructor, School of Medicine</i> Universidad del Norte- Barranquilla, Colombia

GRANTS AWARDED

- 1. Qualitative evaluation of the coaching and management of quality improvement for middle-managers program in Honduras as part of the Salud Mesoamerica Initiative** (11/2023- ongoing). Funded by the Inter-American Development Bank from a grant by the Bill & Melinda Gates Foundation. Role: Principal Investigator. Objectives: A 1-year, theory-driven evaluation of the SMI’s Coaching for Quality Improvement program in extreme poverty municipalities in Honduras.
- 2. Theory-driven evaluation of the ‘Learning from Routine Immunization Strengthening in Polio High Risk Geographies’ Program** (07/2023 - ongoing). In consortium with PATH. Funded by the Bill & Melinda Gates Foundation. Role: Co-Principal Investigator. Objectives: A 5-year, theory-driven evaluation of RISP in the Democratic Republic of Congo, Niger, Somalia, and Pakistan.
- 3. Characterizing the Use of Primary Health Care Performance Information: A multiple case study in El Salvador, Lebanon, and Malawi** (12/20-ongoing). Funded by the George Institute for Global Health. Role: Principal Investigator. Objectives: Characterizing how the health systems of El Salvador, Lebanon and Malawi measure aggregate performance of their Primary Health Care (PHC) systems; and how performance information is used by decision makers at the national and district level.
- 4. Research Impact Assessment of the Alliance for Health Policy and Systems Research: Developing National Stories of Change for Health Policy and Systems Research** (11/19-04/21). Role: Co-Investigator. Objectives: to assess the impact and contributions of the Alliance’s investment in strengthening capacity, increasing research productivity, advancing health policy and practice, and improving health systems in low- and middle-income countries (China, Vietnam, Pakistan, India, Nigeria, Uganda, South Africa, and Mexico).
- 5. Impact Evaluation of the program “Connecting young parents to post-partum family planning through diverse platforms (Connect) in Bangladesh and Tanzania.** Funded by the Bill and Melinda Gates Foundation. Role: Investigator Objective: To design and implement a mixed method, impact evaluation of the scale-up of young couples’ post-partum family planning (PPFP) interventions in pre-existing, non-FP platforms in Bangladesh and Tanzania.
- 6. Spreading lessons and sustaining improvements in primary health care (PHC) system performance in Mesoamerica** (12/16 – 06/20). Funded by the Bill & Melinda Gates Foundation. Role: Principal Investigator. Objectives: 1) To generate global public goods in the form of new knowledge and published papers about the mechanisms through which primary health care systems improve performance and attain population-level maternal and neonatal health outcomes in low- and middle-income countries; and 2) To design and test novel systems thinking methods aimed at improving the design of maternal and neonatal health

policies that enhance PHC system performance.

GRANTS CONCLUDED

- ***Novel approaches to measuring demand-side community perceptions and barriers to family planning via social network analysis in Kenya (12/15 - 03/19)*** - Funded by the Bill and Melinda Gates Foundation. Role: Principal Investigator. Objective: To design, validate, and pressure-test a prototype methodology that combines demographic clustering, qualitative analysis, social network analysis, and agent-based modeling for measuring the performance of behavior change programs that aim to increase the adoption of modern contraceptives in Kilifi County, Kenya.
- ***Designing and implementing a maternal iron deficiency and anemia control strategy in India using a social norms approach and a Self-Help Groups (SHGs) platform.*** (10/18-09/20) - Funded by the Bill & Melinda Gates Foundation. Role: Co-Investigator (Policy component). Objective: To design, implement, and evaluate a social norms-based approach to reduce anemia among women of reproductive age and during pregnancy in Odisha, India.
- ***Identifying and exploring gaps in research and implementation on Quality, Safety, and Performance Management in Primary Health Care Systems in Low- and Middle-Income Countries*** (01/18-12/18). Funded by the Bill & Melinda Gates Foundation through Ariadne Labs and Brigham and Women's Hospital. Role: Principal Investigator. Partnership with the International Initiative for Impact Evaluation -3Ie. Objective: Development of an evidence gap map and prioritized research agenda in the area of performance management, quality and safety in primary care systems of low- and middle-income countries.
- ***Learning from Ananya - Scaling Up Improved Primary Health Care System Performance in Bihar*** (01/17 – 03/19) - Funded by the Bill and Melinda Gates Foundation in partnership with Stanford University. Role: Investigator (Lead for realist evaluation of motivation of community health workers). Objective: This grant will leverage existing data sets and generate new insights and analysis about the BMGF-funded Ananya program in Bihar, India.

PUBLICATIONS

Articles in Refereed Journals (Since 2013)

1. Aranda, L. E., Arif, Z., Innocenti, C., ...Munar, W. (2023). Characterizing the implementation of performance management interventions in a primary health care system. A case study of the Salud Mesoamerica Initiative in El Salvador. *Health Policy and Planning*, czad020.
2. Lahiri, S., Bingenheimer, J., Sedlander, E., Munar, W., & Rimal, R. (2023). The role of social norms on adolescent family planning in rural Kilifi County, Kenya. *Plos one*, 18(2), e0275824.
3. Munar, W., et al. (2022). "Characterising performance information use in the primary health care systems of El Salvador, Lebanon, and Malawi: Multiple case study protocol." *BMJ Open* 12(e060503).
4. Lungeanu, A., et al. (2022). "Reprint of: Using Trellis software to enhance high-quality large-scale network data collection in the field." *Social Networks* 69: 293-306.
5. Newton-Lewis, T., Munar, W., & Chanturidze, T. (2021). Performance management in complex adaptive systems: a conceptual framework for health systems. *BMJ Global*

Health, 6(7), e005582.

6. Lungeanu, A., McKnight, M., Negron, R., Munar, W., Christakis, N. A., & Contractor, N. S. 2022. Reprint of: Using Trellis software to enhance high-quality large-scale network data collection in the field. *Social Networks*.
7. Sedlander, E., Bingenheimer, J. B., Lahiri, S., Thiongo, M., Gichangi, P., Munar, W., & Rimal, R. N. (2021). Does the belief that contraceptive use causes infertility actually affect use? Findings from a social network study in Kenya. *Studies in family planning*, 52(3), 343-359.
8. Munar, W., Snilstveit, B., Aranda, L. E., Biswas, N., Baffour, T., & Stevenson, J. (2021, December 15). Medición y gestión del desempeño en los sistemas de salud de atención primaria en países de ingresos bajos y medios. *London: International Initiative for Impact Evaluation*.
9. Lungeanu, A., McKnight, M., Negron, R., Munar, W., Christakis, N. A., & Contractor, N. S. (2021). Using Trellis software to enhance high-quality large-scale network data collection in the field. *Social Networks*, 66, 171-184.
10. Peiris, D., et al. (2021) Strengthening primary health care in the COVID-19 era: a review of best practices to inform health system responses in low- and middle-income countries. *WHO South-East Asia Journal of Public Health*, 10, 6-25.
11. Darmstadt, G. L., et al. (2020). Impact of the Ananya program on reproductive, maternal, newborn and child health and nutrition in Bihar, India: early results from a quasi-experimental study. *Journal of Global Health*, 10(2).
12. Wahid, S. S., Munar, W., Das, S., Gupta, M., & Darmstadt, G. L. (2020). 'Our village is dependent on us. That's why we can't leave our work'. Characterizing mechanisms of motivation to perform among Accredited Social Health Activists (ASHA) in Bihar. *Health Policy and Planning*, 35(1), 58-66.
13. Munar, W., Snilstveit, B., Aranda, L. E., et al. (2019) Evidence gap map of performance measurement and management in primary healthcare systems in low-income and middle-income countries. *BMJ Global Health*, 4, e001451.
14. Carmichael, S. L., Mehta, K., Raheel, H. (2019). Effects of team-based goals and non-monetary incentives on front-line health worker performance and maternal health behaviours: a cluster randomised controlled trial in Bihar, India. *BMJ Global Health*, 4, e001146.
15. Sedlander, E., Bingenheimer, J. B., Thiongo, M., Gichangi, P., Rimal, R. N., Edberg, M., & Munar, W. (2018). "They Destroy the Reproductive System": Exploring the Belief that Modern Contraceptive Use Causes Infertility. *Studies in family planning*, 49(4), 345-365.
16. Munar, W. et al. (2018). "Evidence gap map of performance measurement and management in primary care delivery systems in low-and middle-income countries—Study protocol." *Gates Open Research* 2.
17. Munar, W., Wahid, S. S., & Curry, L. (2018). Characterizing performance improvement in primary care systems in Mesoamerica: A realist evaluation protocol. *Gates Open Research*, 2.
18. Sedlander, E., Rimal, R. N., Talegawkar, S. A., Yilma, H., & Munar, W. (2018). Designing a socio-normative intervention to reduce anemia in Odisha India: A formative research protocol. *Gates Open Research*, 2.
19. Edberg, M., Sedlander, E., Rimal, R., Bingenheimer, J., Shaikh, H., Munar, W., ... & Morankar, S. (2018). Planned social network change and modern contraceptive use in a rural Ethiopian community. *Journal of Global Health Reports*, 2.

20. Munar, W., Hovmand, P., & Darmstadt, G. L. (2015). Scaling-Up Impact in Perinatology through Systems Science – Bridging the Collaboration and Translational Divides in Cross-disciplinary Research and Public Policy. *Seminars in Perinatology*, 39, 416-423.
21. Darmstadt, G. L., Munar, W., & Henry, S. (2014). Newborn Health: Everybody's Business. *Global Public Health*, 9(7), 752-759.
22. Darmstadt, G. L., & Munar, W. (2013). Behavior change and community participation: Assessing causal pathways affecting neonatal mortality. *JAMA*, 310(9), 969-970.

Book chapters

23. Levy, J. K., Goold, A., Houston, A., Rios-Zertuche, D., & Munar, W. (2018). Gender and Family Planning Among Indigenous Women in Mexico and Central America: A Call to Action. In *Maternal Death and Pregnancy-Related Morbidity Among Indigenous Women of Mexico and Central America* (pp. 113-131). Springer, Cham.

PUBLIC HEALTH PORTFOLIO

2020-2023	<p>Primary Health Care Research Consortium, New Delhi, India Steering Committee Member (Pro-Bono); Collaborative research and capacity-building in health systems research with researchers at University of Malawi. Type of involvement: International Level of effort: 5%</p>
Jan 2020- March 2022	<p>The Global Fund for HIV/AIDS, TB and Malaria, Geneva, Switzerland Serving Member, Technical Review Committee (Honorarium paid) Level of effort: 0 % Type of involvement: International Areas of expertise: Sustainable Investments and Strategic Financing; and Health Systems.</p>

