

Ridhima Sodhi

Economist & Data Scientist · Technical Expert (TB), WHO SEARO · Founder, [Nivaroh Pathways](#)
ridhimasodhi@gmail.com · +91-97112-09174 · New Delhi · [ridhimasodhi.com](#) · [LinkedIn](#) · [ORCID](#)

Economist and policy professional with ~14 years of experience at the intersection of public health, social protection, and data analytics.

Authored multiple peer-reviewed publications. Developed and scaled open-source decision-support tools adopted by governments, I-NGOs, and multilateral agencies across national and multi-state programs. Designed and led capacity-building initiatives across academic, public, and private settings.

ACADEMIC TRAINING / POSITIONS

- **MS Public Policy & Management**, Heinz College, Carnegie Mellon University, USA (2016)
- **MA Economics**, Delhi School of Economics, Delhi University, India (2012)
- **Associate Research Scientist**, New York University (2017-18)

METHODS & TOOLS

- Quantitative (causal inference, quasi-experimental, econometric modelling, cost-benefit analysis)
- Qualitative (thematic analysis, case study, Mixed Methods)
- Data Visualization (combinatory design approaches, statistical visualization, spatial analysis)
- Open Source (R Studio / Python) & proprietary (SAS, STATA, ArcGIS)

Designed & Developed several open-source tools. [Smart M&E](#) – used by Clinton Health Access Initiative for TB Programs; [P4H Network's Data Dashboard](#) on Health Financing & Unmet Needs

WORK EXPERIENCE

Concurrent assignments, most concluding in 2026

Health Economist | [Clinton Health Access Initiative, Nigeria/Global Office](#) | Sep 2026 – Present

Leading the economic evaluation and cost-effectiveness study of Global Fund GC7 investments in HIV, TB and malaria in Nigeria.

Technical Expert, TB | [World Health Organization, SEARO](#) | Rostered 2025–2029; assignment July 2026

Supported technical writing for the 79th Session of the WHO Regional Committee for South-East Asia.

Health Economist and Data Scientist | [Jan Swasthya Sahyog, Chhattisgarh, India](#) | Jun 2026 – Present

Leading institutional research development and capacity building across community health and nutrition programs. Examples: quasi-experimental evaluation of Phulwari (early childhood nutrition and education, ages 6 months to 3 years) and cost-benefit analysis of a community hypertension program.

Scientific Writer & Data Scientist | [Qiagen, Remote](#) | Jan 2026 - Present

Led scientific writing on TB infection diagnostics and the care cascade; manuscript under peer review.

PRIOR WORK EXPERIENCE *long-term*

Senior Consultant, TB Programs | [William J. Clinton Foundation, New Delhi, India](#) | 2020 – 2026

Led research, evaluation, and data analytics for TB programs; supported program design, implementation, M&E, and grant writing; Thought partner for infectious disease programs.

- **Research & Evaluation:** Led quantitative and qualitative analyses across the TB care continuum — funding transitions, adherence, health financing, private sector engagement, and diagnostic pathways. Responsibilities included protocol writing, survey design, field supervision, agency management, modeling, data visualization, and manuscript writing. Examples include:
 - Evaluated [JEET 1.0](#) (Global Fund multi-year grant); the largest private sector TB engagement program in India, with a focus on domestic financing transition (BMC Health Services Research, 2026)
 - Evaluated operational cascade of [JEET 2.0](#), the largest latent TB program in India, across diagnostic and treatment pathways (secondary evaluation; pre-print available)
- **Systems & Innovation:** Designed and deployed [Smart M&E](#), an open-source automated decision-support system adopted in 22+ districts, covering 2.2 lakh TB patients; shortlisted by ICMR for nation-wide scale up; Supported development of a real-time analytics dashboard for India's Central TB Division (CTD), Ministry of Health & Family Welfare.
- **Resource Mobilization & Program Design:** Led grant-writing & project design; managed collaborations with USAID, Stop TB, Gates Foundation, and Imperial College

MERL Manager, Health Markets | [Chemonics International, New Delhi, India](#) | Sep 2023 – Jun 2024

Core leadership for USAID's flagship \$135M+ FHM (Frontier Health Markets) Engage market-shaping program targeting 1M+ women in India for improved access to reproductive health products and services.

- **MERL:** Developed the MERL architecture for India; aligned performance metrics, sub-recipient systems, and financing frameworks; led M&E functions for sub-recipients.
- **Market Strengthening & Demand Generation:** Supported market-shaping for improved women's health products, including higher-generation contraceptives and Long-Acting Reversible Contraceptives (LARCs). Managed partners for digital and offline demand generation; including through mapping and engagement of India's [Community Service Centres \(CSCs\)](#) to strengthen distribution.
- **Partnerships:** Facilitated collaborations among government regulators, digital health providers, and NGOs; towards the creation of [Women's Health & Livelihood coalition \(WoHLA\)](#), a multi-stakeholder initiative to align policy, service delivery, and market-based solutions.

Health Financing & Data Expert | [P4H Network, WHO HQ \(Geneva, Switzerland\)](#) | Nov 2021 – Oct 2022

- **Technical Support:** Advised country partners in sub-Saharan Africa and Latin America on domestic health financing reforms, including donor flow mapping to strengthen planning under the Global Financing Facility
- **Data Science / Technology:** Led design and development of a global country-level dashboard on unmet health needs and catastrophic healthcare expenditures - [p4h.world](#).
- **Resource Mobilization:** Secured and co-led a [USAID Health Policy & Systems Research grant](#) (HSSA Accelerator). Led collaborations with GIZ, Swiss TPH, Seoul National University, and R4D.

Research Fellow | [McKinsey & Company, New Delhi, India](#) | Apr 2019 – Jun 2020

Enhanced McKinsey's flagship *Future of Work* econometric model to assess AI- and IoT-driven job transitions across all major sectors, including expanding coverage to 60+ countries, updating models for healthcare, climate, and energy, extending forecasts, and migrating to an open-source framework.

Associate Research Scientist | [New York University, New York, USA](#) | May 2017 – Dec 2018

- Supported research and government-sponsored projects in urban healthcare and social welfare; managed projects for USPTO and the White House; supported state healthcare departments.
- **Teaching:** Core member of the [Coleridge Initiative](#), Data Driven Decision Making for Government (award-winning program for senior US government policy professionals); Co-designed and taught Applied Data Analytics for Public Policy at NYU Wagner School of Public Policy.

Assistant Manager, Credit & Fraud Risk Modeling | [Barclays, Noida, India](#) | Feb 2013 – Jul 2015

Assistant Manager, Data Analytics & Research | [IBM, Bangalore, India](#) | May 2012 – Jan 2013

PRIOR WORK EXPERIENCE *short term*

Senior Consultant, Global TB | [Clinton Health Access Initiative \(CHAI\), Vietnam](#) | Dec 2023 – Feb 2024

- Supported the development of a clinical protocol to examine effectiveness of advanced TB diagnostics (e.g., pooled swab testing) in Vietnam – specific tasks included detailed sampling computations for diagnostic accuracy measurements and cost-assessments across different program interventions
- Supported program design for conducting a cost-benefit evaluation of active case finding for TB in China

Quantitative Lead | [Indian Institutes of Public Health \(IIPH\)](#) | Jul 2023 – Sep 2023

Led quantitative evaluation of Nikshay Mitra, India's largest community-driven nutrition support program for TB patients. Published in [Indian Journal of Community Medicine \(2025\)](#).

Quantitative Lead | [Treemouse, New Delhi, India](#) | Mar 2023 – Sep 2023

Led a nationwide primary-quantitative study (8,500+ surveyed across 10 districts) on digital knowledge patterns and access to social services via national biometric systems (Aadhaar).

Consultant | [International Trading Economics, Mauritius](#) | Feb 2019 – Apr 2019

Modelled trade agreement scenarios using nonlinear methods to inform free-trade agreement negotiations.

Graduate Intern | [Palladium International, Washington D.C., USA](#) | Jun 2016 – Aug 2016

Supported the [HP+ project](#) on health financing, HIV financing, reproductive health, and catastrophic health expenditure in sub-Saharan Africa & Latin America.

PUBLICATIONS

- Sodhi R et al. (2026). Private sector engagement for tuberculosis care in India: lessons from JEET and the transition to domestic financing. BMC Health Services Research. doi: [10.1186/s12913-026-15966-1](https://doi.org/10.1186/s12913-026-15966-1)
- Sodhi R et al. (2026). Strengthening TB care pathways: Integrating informal and AYUSH practitioners for early diagnosis and referral. PLOS Global Public Health 6(4): e0004416. doi:[10.1371/journal.pgph.0004416](https://doi.org/10.1371/journal.pgph.0004416).
- Sodhi R et al. (2025). Adverse drug reactions in tuberculosis treatment: Incidence, duration and resolution pathways. PLOS Global Public Health, 5: e0004149. doi: [10.1371/journal.pgph.0004149](https://doi.org/10.1371/journal.pgph.0004149).
- Shah H, Sodhi R et al. (2025). Assessing the Role of Pradhan Mantri TB Mukh Bharat Abhiyaan in India's Fight against TB. Indian Journal of Community Medicine. doi: [10.4103/ijcm.ijcm_418_24](https://doi.org/10.4103/ijcm.ijcm_418_24).
- Sodhi R et al. (2024). Impact of a pilot mHealth intervention on TB treatment outcomes in the private sector using Propensity Score Matching. PLOS Digital Health, 3(9): e0000421. doi: [10.1371/journal.pdig.0000421](https://doi.org/10.1371/journal.pdig.0000421).
- Ricks S, Singh A, Sodhi R et al. (2024). Operational priorities for engaging with India's private healthcare sector for TB control: a modelling study. BMJ Open, 14(3): e069304. doi: [10.1136/bmjopen-2022-069304](https://doi.org/10.1136/bmjopen-2022-069304).
- Sodhi R, Penkunas MJ, Pal A. (2023). Free drug provision for tuberculosis increases patient follow-ups and successful treatment outcomes in the Indian private sector. BMC Infectious Diseases, 23(1): 421. doi: [10.1186/s12879-023-08396-5](https://doi.org/10.1186/s12879-023-08396-5).
- Glennon B, Lane J, Sodhi R. (2018). Money for Something: The Links between Research Funding and Innovation. doi: <http://dx.doi.org/10.2139/ssrn.3222799>
- Sodhi R. (2018). Global Spending on Family Planning and Reproductive Health. *CIRP Journal*, 3(1), 16–19. Carnegie Mellon University, Center for International Relations and Politics. [ISSN 2328-9295](https://doi.org/10.2139/ssrn.3222799).

UNDER PEER REVIEW / PRE-PRINTS

- Sodhi R et al. (2026). Operational Cascade of Latent TB Infection Management in India: Learnings from a Multi-State Program (Pre-Print Available)
- Sodhi R et al. (2026). IGRA-Based Screening in Household Contacts of TB Patients: Programmatic Performance, Cascade Outcomes, and Quantitative QFT-Plus Responses.
- Sodhi R et al. (2026). Chest X-Ray as a Critical Screening Tool for TB Preventive Therapy: Lessons from Three Years of Programmatic Data Across Ten Indian States. doi:[10.64898/2026.06.16.26355768](https://doi.org/10.64898/2026.06.16.26355768)
- Sodhi R et al. (2025). Post-TPT Risk of Tuberculosis Among Household Contacts: A Multistate Observational Cohort Study from India. Research Square. doi:[10.21203/rs.3.rs-8176310/v1](https://doi.org/10.21203/rs.3.rs-8176310/v1).

CONFERENCE PAPERS / RESEARCH SUPPORT

- Sodhi R, Cole J, Egge M, Zhang W. (2017). Smart Street Sweeping in the City of Pittsburgh, PA; APPAM Conference, Washington D.C.
- (Research support) Fagan T et al. (2017). Family Planning in the Context of Latin America's Universal Health Coverage Agenda. Global Health: Science and Practice. doi: [10.9745/GHSP-D-17-00057](https://doi.org/10.9745/GHSP-D-17-00057).
- (Research support) Barker C et al. (2017). Can differentiated care models solve the crisis in HIV treatment financing? Analysis for 38 countries in sub-Saharan Africa. Journal of the International AIDS Society, 20 (Suppl 4): 21648. doi: [10.7448/IAS.20.5.21648](https://doi.org/10.7448/IAS.20.5.21648)

SELECTED CAPACITY-BUILDING INITIATIVES

- **Jan Swasthya Sahyog (2026):** Structured training in data science and research methods using R Studio
- **Clinton Foundation (2021–23):** Structured programs on Economics & Data Science Methods, including an ~8-week course on data science in R Studio.
- **New York University (2017–18):** Data Science Methods for policy professionals (USDA, World Bank, NYC and Illinois government) and NYU graduate students, as part of the [Coleridge Initiative](#).
- Delivered short-term training programs in econometrics & machine learning across India (All India Management Institute, New Delhi, 2019; National Institute for Micro, Small and Medium Enterprises, Hyderabad, 2018; PES Institute of Technology, Bangalore, 2012)

SELECTED CONFERENCES & WORKSHOPS

- India Innovation Summit (Apr 2025); Exhibited [Smart M&E](#), a visual-descriptive open-source decision tool.
- Capacity Building Workshop for TB Technical Support, [WHO SEARO](#), New Delhi (2024)
- [Thematic Workshop on Harnessing Data for Development](#), NITI Aayog, Government of India (Nov 2023)
- Working Group on Operational Priorities for Private Sector TB Engagement in India, Government of India & Donor Partners (2022)
- [Strategic Verification for Strategic Purchasing: Experiences from Nigeria & Cameroon](#), Webinar (2022)