

Ridhima Sodhi

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

Economist and policy professional with ~13 years of experience at the intersection of public health, social protection, and data systems. 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

- **MS Public Policy & Management**, Heinz College, Carnegie Mellon University, USA (2016)
- **MA Economics**, Delhi School of Economics, Delhi University, India (2012)

METHODS & TOOLS

- Primarily Quantitative; albeit with significant Experience in Qualitative & Mixed Methods Evaluation
- Open Source (R Studio / Python) & proprietary (SAS, STATA, ArcGIS)

WORK EXPERIENCE

Technical Expert, Tuberculosis *rostered through 2029*

World Health Organization, SEARO Office | Aug 2024 – Present

Providing technical assistance on global TB guidelines, frameworks, and evidence generation

Senior Consultant, Tuberculosis Programs

William J. Clinton Foundation (WJCF), New Delhi, India | Jul 2020 – Mar 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 transition to domestic financing (mixed-methods; under peer review)
 - 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; 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 for multiple projects on differentiated healthcare, active case finding, and integrated service delivery; managed collaborations with USAID, Stop TB, Gates Foundation, and Imperial College
- **Capacity Building:** Led structured training sessions in econometrics and data science methods

MERL Manager, Frontier Health Markets (FHM-Engage) (USAID)

Chemonics International, New Delhi, India | Sep 2023 – Jun 2024

Core leadership for USAID's flagship \$135M+ FHM 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 web 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, New Delhi, India | Feb 2013 – Jul 2015

Predictive modeling for credit and fraud risk

Assistant Manager, Data Analytics & Research

IBM, Bangalore, India | May 2012 – Jan 2013

Predictive data analytics and econometric modeling for multi-sectoral clients.

SHORT TERM POSITIONS / EXPERIENCE

Senior Consultant, Global TB Teams

Clinton Health Access Initiative (CHAI), Vietnam | Dec 2023 – Feb 2024

Provided technical advisory on clinical protocol development and cost-benefit evaluation of advanced TB diagnostics (e.g., pooled swab testing) in Vietnam and China.

Consultant | Quantitative Lead

Indian Institutes of Public Health (IIPH), Gandhinagar, New Delhi | Jul 2023 – Sep 2023

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

Consultant | 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. Contributed to publications in [GHSP \(2017\)](#) and [Journal of the International AIDS Society \(2017\)](#).

PUBLICATIONS

- 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 Mukat 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. [IZA Discussion Paper No. 11711](#).
- Sodhi R. (2018). Global Spending on Family Planning and Reproductive Health. Journal, Carnegie Mellon University; Center for International Relations and Politics.
- Smart Street Sweeping in the City of Pittsburgh, PA; Presented as a panel paper in APPAM Conference 2017 (Washington D.C.); Ridhima Sodhi, Justin Cole, Mark Egge, Wei Zhang
- (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)

UNDER PEER REVIEW / PRE-PRINTS

- Private Sector Engagement in TB Response in India: Transitioning from International Donor to Domestic Funding. Sodhi R et al.
- Operational Cascade of Latent TB Infection Management in India: Learnings from a Multi-State Implementation Program. Sodhi R et al.
- Chest X-Ray as a Critical Screening Tool for TB Preventive Therapy: Lessons from Three Years of Programmatic Data Across Ten Indian States. Sodhi R et al.
- Post-TPT Risk of Tuberculosis Among Household Contacts: A Multistate Observational Cohort Study from India. Sodhi R et al. Research Square, November 2025. [doi:10.21203/rs.3.rs-8176310/v1](https://doi.org/10.21203/rs.3.rs-8176310/v1).

SELECTED CAPACITY-BUILDING INITIATIVES

- **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 self-developed open-source decision tool.
- Capacity Building Workshop for TB Technical Support, [WHO SEARO](#), New Delhi (Oct 2024).
- UNION World Conference on Lung Health, Bali, Indonesia (Nov 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](#), Online Webinar (May 2022).