Stanford



Rishi Mediratta

Clinical Professor, Pediatrics

CLINICAL OFFICE (PRIMARY)

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Bio

BIO

Dr. Rishi Mediratta, MD, MSc, MA, is a Clinical Professor in Pediatrics, a Pediatric Hospitalist at Lucile Packard Children's Hospital, and a Faculty Fellow at the Stanford Center for Innovation in Global Health (CIGH). He graduated from Johns Hopkins University with a BA in Public Health and went to medical school at Stanford University. Dr. Mediratta has conducted community-based, pediatrics, and public health research in Ethiopia since 2005. He founded the Ethiopian Orphan Health Foundation to provide community-based health care and education to orphans in Ethiopia. As a British Marshall Scholar, he received an MA in Medical Anthropology from the School of Oriental and African Studies and an MSc in Public Health at the London School of Hygiene and Tropical Medicine. As a pediatrics resident at Stanford, he became passionate about decreasing neonatal mortality through hospital- and community-based education programs. As faculty, he supervises trainees and cares for hospitalized children and integrates his field experience and interdisciplinary background to create newborn and child health programs. He has worked with policymakers at the World Bank, the World Health Organization, UNICEF, and Save the Children. At Stanford University, he taught a course to over 1,100 undergraduate and graduate students from all disciplines about the medical and societal implications of the COVID-19 pandemic. He leads education and research in remote neonatal resuscitation, quality improvement in childhood pneumonia, and AI-driven child health innovation.

CLINICAL FOCUS

- Pediatric Hospital Medicine

ACADEMIC APPOINTMENTS

- Clinical Professor, Pediatrics
- Member, Maternal & Child Health Research Institute (MCHRI)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Faculty Fellow, Center for Innovation in Global Health (CIGH) (2021 - present)

PROFESSIONAL EDUCATION

- Board Certification: Pediatric Hospital Medicine, American Board of Pediatrics (2024)

- Board Certification, American Board of Pediatrics , Pediatrics (2018)
- Residency, Stanford University School of Medicine , Pediatrics (2018)
- MD, Stanford University School of Medicine (2015)
- MSc, London School of Hygiene and Tropical Medicine , Public Health (2011)
- MA, School of Oriental and African Studies , Medical Anthropology (2010)
- BA, Johns Hopkins University , Public Health Studies (2008)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I have developed a new promising neonatal mortality prediction score at the University of Gondar Neonatal Intensive Care Unit (NICU) in Gondar, Ethiopia. The score predicts approximately 84% of neonatal deaths in the NICU using clinical variables. I have a dataset over 800 NICU admissions in Gondar. I am recruiting scholars who are interested in conducting clinical and epidemiological research to validate, refine, and implement the mortality score to reduce neonatal mortality in Ethiopia. I can mentor scholars to conduct research in Ethiopia, facilitate in-country supervision at the University of Gondar, and facilitate statistical support with Stanford's Department of Statistics.

CLINICAL TRIALS

- Comparison of Virtual Training to In-Person Training of Helping Babies Breathe in Ethiopia, Not Recruiting

Teaching

COURSES

2023-24

- Past, Present, and Future: Lessons from COVID-19: PEDS 220 (Aut, Win, Spr)

Publications

PUBLICATIONS

- **Clinical Prediction With Time-Varying Predictors in Pediatric Hospital Medicine.** *Hospital pediatrics*
  Fung, A., Beyene, J., D'Arienzo, D., Mediratta, R. P.
  2026
- **Global, regional, and national burden of meningitis, its risk factors, and aetiologies, 1990-2023: a systematic analysis for the Global Burden of Disease Study 2023.** *The Lancet. Neurology*
  2026; 25 (5): 451-468
- **Global burden of lower respiratory infections and aetiologies, 1990-2023: a systematic analysis for the Global Burden of Disease Study 2023** *LANCET INFECTIOUS DISEASES*
  Sirota, S., Bender, R., Dominguez, R., Movo, A., Swetschinski, L. R., Araki, D. T., Han, C., Wool, E. E., He, J., Carter, A., Jabbar, A. A. J., Aalipour, M., Aalruz, et al
  2026; 26 (4): 343-361
- **Implementation of essential newborn care in settings of high-intensity armed conflict: a systematic review.** *BMJ global health*
  Moutwakil, A., Kumar, A., Li, A. T., Huang, C. J., Nelson, B. D., Woodward, A., Amsalu, R., Darmstadt, G. L., Mediratta, R. P.
  2026; 11 (3)
- **Clinical Signs Associated With Mortality and Sepsis in Young Infants: A Systematic Review and Meta-Analysis.** *JAMA pediatrics*
  Driker, S., Mathias, S., Fung, A., Widyaningsih, S. A., Schmeck, N., Adnan, J., Kim, Y., Hussaini, A. S., Kehoe, T., North, K., Hoey, A., Shafiq, Y., Wade, et al
  2026

- **Global, regional, and national progress towards the 2030 global nutrition targets and forecasts to 2050: a systematic analysis for the Global Burden of Disease Study 2021.** *Lancet (London, England)*

  2025; 404 (10471): 2543-2583

- **Burden of 375 diseases and injuries, risk-attributable burden of 88 risk factors, and healthy life expectancy in 204 countries and territories, including 660 subnational locations, 1990-2023: a systematic analysis for the Global Burden of Disease Study 2023** *LANCET*

  Hay, S. I., Ong, K., Santomauro, D. F., Bhoomadevi, A., Aalipour, M., Aalruz, H., Ababneh, H. S., Abaraogu, U. O., Abate, B., Abbafati, C., Abbas, N., Abbasifard, M., Abbasi-Kangevari, et al

  2025; 406 (10513): 1873-1922

- **Global age-sex-specific all-cause mortality and life expectancy estimates for 204 countries and territories and 660 subnational locations, 1950-2023: a demographic analysis for the Global Burden of Disease Study 2023** *LANCET*

  Schumacher, A. E., Zheng, P., Barber, R. M., Bhoomadevi, A., Aalipour, M., Aalruz, H., Ababneh, H. S., Abaraogu, U. O., Abbafati, C., Abbas, N., Abbasifard, M., Abbaspour, F., Abd Al Magied, et al

  2025; 406 (10513): 1731-1810

- **Global burden of 292 causes of death in 204 countries and territories and 660 subnational locations, 1990-2023: a systematic analysis for the Global Burden of Disease Study 2023** *LANCET*

  Naghavi, M., Kyu, H., Bhoomadevi, A., Aalipour, M., Aalruz, H., Ababneh, H. S., Abafita, B. J., Abaraogu, U. O., Abbafati, C., Abbasi, M., Abbaspour, F., Abbastabar, H., Abd Al Magied, et al

  2025; 406 (10513): 1811-1872

- **Global, regional, and national trends in routine childhood vaccination coverage from 1980 to 2023 with forecasts to 2030: a systematic analysis for the Global Burden of Disease Study 2023.** *Lancet (London, England)*

  GBD 2023 Vaccine Coverage Collaborators, Haeuser, E., Byrne, S., Nguyen, J., Raggi, C., McLaughlin, S. A., Bisignano, C., Harris, A. A., Smith, A. E., Lindstedt, P. A., Smith, G., Herold, S. J., Nesbit, O. D., et al

  2025; 406 (10500): 235-260

- **Principles of Clinical Prediction Model Development and Validation.** *Hospital pediatrics*

  Fung, A., Beyene, J., Mediratta, R. P.

  2025

- **Global, regional, and national burden of epilepsy, 1990-2021: a systematic analysis for the Global Burden of Disease Study 2021.** *The Lancet. Public health*

  2025; 10 (3): e203-e227

- **Remote Versus In-Person Pre-Service Neonatal Resuscitation Training: A Noninferiority Randomized Controlled Trial in Ethiopia.** *Resuscitation*

  Mediratta, R. P., Clary, M. K., Liang, J. W., Daniels, K., Muhe, L. M., Lee, H. C., Eshetu, B., Berhane, M.

  2025: 110556

- **Global, regional, and national age-sex-specific burden of diarrhoeal diseases, their risk factors, and aetiologies, 1990-2021, for 204 countries and territories: a systematic analysis for the Global Burden of Disease Study 2021.** *The Lancet. Infectious diseases*

  2024

- **Burden of disease scenarios by state in the USA, 2022-50: a forecasting analysis for the Global Burden of Disease Study 2021.** *Lancet (London, England)*

  2024; 404 (10469): 2341-2370

- **Global, regional, and national stillbirths at 20 weeks' gestation or longer in 204 countries and territories, 1990-2021: findings from the Global Burden of Disease Study 2021.** *Lancet (London, England)*

  2024

- **Evaluating the implementation of the Pediatric Acute Care Education (PACE) program in northwestern Tanzania: a mixed-methods study guided by normalization process theory.** *BMC health services research*

  Mwanga, J. R., Hokororo, A., Ndosi, H., Masenge, T., Kalabamu, F. S., Tawfik, D., Mediratta, R. P., Rozenfeld, B., Berg, M., Smith, Z. H., Chami, N., Mkopi, N. P., Mwanga, et al

  2024; 24 (1): 1066

- **Diagnostic Accuracy of Clinical Sign Algorithms to Identify Sepsis in Young Infants Aged 0 to 59 Days: A Systematic Review and Meta-analysis.** *Pediatrics*

Fung, A., Shafiq, Y., Driker, S., Rees, C. A., Mediratta, R. P., Rosenberg, R., Hussaini, A. S., Adnan, J., Wade, C. G., Chou, R., Edmond, K. M., North, K., Lee, et al

2024; 154 (Suppl 1)

- **Predictive Accuracy of Infant Clinical Sign Algorithms for Mortality in Young Infants Aged 0 to 59 Days: A Systematic Review.** *Pediatrics*

  Shafiq, Y., Fung, A., Driker, S., Rees, C. A., Mediratta, R. P., Rosenberg, R., Hussaini, A. S., Adnan, J., Wade, C. G., Chou, R., Edmond, K. M., North, K., Lee, et al

  2024; 154 (Suppl 1)

- **Trends and levels of the global, regional, and national burden of appendicitis between 1990 and 2021: findings from the Global Burden of Disease Study 2021.** *The lancet. Gastroenterology & hepatology*

  2024

- **Etiology of hospital mortality in children living in low- and middle-income countries: a systematic review and meta-analysis.** *Frontiers in pediatrics*

  Kortz, T. B., Mediratta, R. P., Smith, A. M., Nielsen, K. R., Agulnik, A., Gordon Rivera, S., Reeves, H., O'Brien, N. F., Lee, J. H., Abbas, Q., Attebery, J. E., Bacha, T., Bhutta, et al

  2024; 12: 1397232

- **Global Health Education in Pediatric Hospital Medicine Fellowships in the United States.** *Hospital pediatrics*

  Lenzen, C., Coria, A. L., Hofto, M. E., Pitt, M. B., Cheng, F. Y., Mediratta, R. P.

  2024

- **Training the next generation of community-engaged physicians: a mixed-methods evaluation of a novel course for medical service learning in the COVID-19 era.** *BMC medical education*

  Scala, J. J., Cha, H., Shamardani, K., Rashes, E. R., Acosta-Alvarez, L., Mediratta, R. P.

  2024; 24 (1): 426

- **Global burden of 288 causes of death and life expectancy decomposition in 204 countries and territories and 811 subnational locations, 1990-2021: a systematic analysis for the Global Burden of Disease Study 2021.** *Lancet (London, England)*

  2024

- **Global age-sex-specific mortality, life expectancy, and population estimates in 204 countries and territories and 811 subnational locations, 1950-2021, and the impact of the COVID-19 pandemic: a comprehensive demographic analysis for the Global Burden of Disease Study 2021.** *Lancet (London, England)*

  2024

- **Implementing adaptive e-learning for newborn care in Tanzania: an observational study of provider engagement and knowledge gains.** *BMJ open*

  Meaney, P. A., Hokororo, A., Ndosi, H., Dahlen, A., Jacob, T., Mwanga, J. R., Kalabamu, F. S., Joyce, C. L., Mediratta, R., Rozenfeld, B., Berg, M., Smith, Z. H., Chami, et al

  2024; 14 (2): e077834

- **Research Methods: Diagnostic Test Characteristics.** *Hospital pediatrics*

  Mediratta, R. P., Newman, T. B., Wang, M. E.

  2023

- **Changes in preterm birth and stillbirth during COVID-19 lockdowns in 26 countries.** *Nature human behaviour*

  Calvert, C., Brockway, M. M., Zoega, H., Miller, J. E., Been, J. V., Amegah, A. K., Racine-Poon, A., Oskoui, S. E., Abok, I. I., Aghaeepour, N., Akwaowo, C. D., Alshaikh, B. N., Ayede, et al

  2023

- **Applying Kern's Six Steps to the Development of a Community-Engaged, Just-in-Time, Interdisciplinary COVID-19 Curriculum.** *Journal of medical education and curricular development*

  Scala, J. J., Braun, N. J., Shamardani, K., Rashes, E. R., Wang, W., Mediratta, R. P.

  2022; 9: 23821205221096370

- **Applying Kern's Six Steps to the Development of a Community-Engaged, Just-in-Time, Interdisciplinary COVID-19 Curriculum** *Journal of Medical Education and Curricular Development*

  Scala, J. J., Braun, N. J., Shamardani, K., Rashes, E. R., Wang, W., Mediratta, R. P.

  2022; 9: 23821205221096370

- **Overnight admissions to a neonatal intensive care unit in Ethiopia are not associated with increased mortality.** *PloS one*
  Mediratta, R. P., Rajamani, M., Ayalew, M., Shehibo, A., Tazebew, A., Teklu, A.
  2022; 17 (3): e0264926

- **The Burden of Critical Illness in Hospitalized Children in Low- and Middle-Income Countries: Protocol for a Systematic Review and Meta-Analysis.** *Frontiers in pediatrics*
  Kortz, T. B., Nielsen, K. R., Mediratta, R. P., Reeves, H., O'Brien, N. F., Lee, J. H., Attebery, J. E., Bhutta, E. G., Biewen, C., Coronado Munoz, A., deAlmeida, M. L., Fonseca, Y., Hooli, et al
  2022; 10: 756643

- **Challenges and Opportunities in Deploying COVID-19 Cough AI Systems.** *Journal of voice : official journal of the Voice Foundation*
  Khanzada, A., Hegde, S., Sreeram, S., Bower, G., Wang, W., Mediratta, R. P., Meister, K. D., Rameau, A.
  2021

- **Derivation and validation of a prognostic score for neonatal mortality in Ethiopia: a case-control study.** *BMC pediatrics*
  Mediratta, R. P., Amare, A. T., Behl, R., Efron, B., Narasimhan, B., Teklu, A., Shehibo, A., Ayalew, M., Kache, S.
  2020; 20 (1): 238

- **Global Emergency Medicine: A Review of the Literature from 2018** *ACADEMIC EMERGENCY MEDICINE*
  Trehan, I., Osei-Ampofo, M., Balhara, K. S., Hexom, B. J., Kivlehan, S. M., Modi, P., Pousson, A. Y., Selvam, A., Quao, N. A., Cho, D. K., Becker, T. K., Levine, A. C., Bannon-Murphy, et al
  2019

- **Liver Failure and Rash in a 6-week-old Girl** *PEDIATRICS IN REVIEW*
  Mediratta, R., Schwenk, H., Rao, A., Chitkara, R.
  2018; 39 (6): 315–U22

- **Galvanizing medical students in the administration of influenza vaccines: the Stanford Flu Crew.** *Advances in medical education and practice*
  Rizal, R. E., Mediratta, R. P., Xie, J., Kambhampati, S., Hills-Evans, K., Montacute, T., Zhang, M., Zaw, C., He, J., Sanchez, M., Pischel, L.
  2015; 6: 471-477

- **Risk Factors and Case Management of Acute Diarrhoea in North Gondar Zone, Ethiopia** *JOURNAL OF HEALTH POPULATION AND NUTRITION*
  Mediratta, R. P., Feleke, A., Moulton, L. H., Yifru, S., Sack, R. B.
  2010; 28 (3): 253-263