

Neetu Jain, PhD, MPH, BHMS

LinkedIn: [Neetu Jain](#) | [LinkedIn](#)

Overview

Neetu Jain is a senior health services researcher and epidemiologist with more than 20 years of experience working at the intersection of data, policy, and healthcare delivery. She has led large-scale research and evaluation efforts to support federal and state programs, with a focus on using real-world data—such as Medicaid and Medicare claims, All-Payer Claims Databases (APCDs), and electronic health records—to improve care quality, equity, and outcomes.

She focuses on maternal and child health, value-based care, and health system performance, with a strong track record of turning complex data into actionable policy insight. Her work has contributed to national efforts to strengthen quality measurement and evaluate major demonstration programs. At Mathematica, she led high-impact projects for CMS and AHRQ, overseeing technical design, quality measure validation, and analytics supporting programs such as MIPS, SNF Value-Based Purchasing, and AHRQ's Area Quality Indicators. She also contributed to AHRQ's Compendium of U.S. Health Systems, a comprehensive dataset that provides insight into the healthcare organization landscape, including systems, hospitals, group practices, outpatient sites, nursing homes, and home health organizations, with annual updates and expanding variables.

Neetu brings strong leadership experience, having built and led multidisciplinary teams while mentoring junior staff across projects. She has driven proposal development for federal and foundation-funded initiatives and contributed to the field through peer-reviewed publications and national presentations, particularly in maternal health, healthcare disparities, and social determinants of health.

She also brings deep experience in data strategy and governance, including work on T-MSIS modernization and Medicaid data integration. At the core of her work is a commitment to using data in ways that meaningfully improve public health—especially for underserved populations.

Skills & Expertise

Policy Leadership & Impact

- Developed evidence-based proposals on Medicaid modernization, provider performance, and maternal health equity—informing CMS and AHRQ strategies.
- Presented at national conferences and authored policy briefs shaping discourse on affordability, access, and health equity.

Policy & Regulatory Expertise

- Deep knowledge of Medicare, Medicaid FFS & Managed Care, HRSA (340B), and state reform initiatives.
- Skilled in interpreting legislation such as the Inflation Reduction Act and Prescription Drug Affordability Boards.

Research & Analytics

- Led impact analyses, policy scans, and evaluations focused on coverage, performance, and equity in public payer systems.
- Advanced skills in SAS, SQL, Excel Pivot; proficient in Tableau for data visualization and dashboards.
- Managed and analyzed large datasets (T-MSIS, Medicare, APCD); conducted longitudinal studies, reimbursement modeling, and population health research.

Strategic Communication

- Produced policy briefs, technical reports, and client-ready presentations translating complex findings into actionable insights.
- Delivered rapid-turnaround analyses and concise, impactful communications in response to evolving policy landscapes.

Leadership & Mentorship

- Directed cross-functional teams for CMS, AHRQ, and state agencies; managed multimillion-dollar projects from scoping to delivery.
- Mentored junior analysts and MPH students, building analytic and policy capacity across interdisciplinary teams.

Datasets & Tools

- Claims & Clinical Data: Medicare Enrollment & Claims, Medicaid T-MSIS/TAF, Colorado APCD, Truveta EMRs
- Vital & Public Health Records: NJ Birth, Fetal, and Infant Death Certificates; Hospital Discharge Claims; PRAMS
- Survey & Population Data: Census, ACS, SEER, NHIS, US EPA Air Quality Data

Healthcare Domains

- Maternal & Child Health, Quality Indicators, Value-Based Purchasing, Health System Performance, Social Determinants of Health

Technical Tools & Collaboration Platforms

- SAS | SQL | Excel | Tableau | Automatch
- Jira | Confluence | Microsoft Teams | SharePoint | Slack | Dropbox | Zoom

Education

- 2018** Ph.D., Epidemiology, Maternal and Child Health, Rutgers University, School of Public Health
2001 M.P.H., Epidemiology, School of Public Health, University of Medicine and Dentistry of New Jersey
1999 B.H.M.S., Homeopathic Medicine and Surgery, with distinction, D.S. Homeopathic Medical College, Pune, India

Experience

Humana - Research Scientist **2025-2026**

- Led multi-million-dollar musculoskeletal (MSK) value-based care portfolio
- Conducted outcomes research and feasibility analyses on clinical effectiveness and member engagement
- Analyzed large-scale medical, pharmacy, and laboratory claims datasets
- Developed clinical KPIs, utilization metrics, and performance dashboards
- Collaborated cross-functionally to translate claims-based insights into measurement strategies
- Prepared executive-level reports and presentations for strategic decision-making

Mathematica - Senior Researcher and Project Director **2013-2025**

- Led federal and state healthcare initiatives focused on transforming health systems and strengthening quality measurement and evaluation efforts
- Managed multidisciplinary teams across more than 20 large-scale studies for CMS, AHRQ, and state Medicaid agencies
- Played a key role in securing \$2.4M in AHRQ funding through proposal development and strategic positioning
- Developed technical specifications for Medicaid and Medicare data systems and refined quality measures used in program monitoring
- Led validation efforts for MIPS and SNF quality measures and contributed to AHRQ's Area and Hospital Quality Indicators
- Oversaw the integration of Medicaid provider data into national performance frameworks
- Directed multi-state Medicaid data transformation efforts aligned with CMS IT modernization initiatives, including MACBIS and T-MSIS ORT
- Coordinated subcontractors and cross-functional teams to deliver complex analytics and data integration work
- Partnered closely with CMS and state Medicaid leaders to ensure alignment with policy, compliance, and transparency priorities
- Provided technical assistance to state partners and led stakeholder engagement across topics such as maternal health, value-based care, and social determinants of health
- Built data pipelines and translated real-world evidence into policy briefs, reports, and technical deliverables
- Produced rapid-response analyses on telehealth reimbursement, prescription drug pricing, and disparities in preventive care
- Presented findings to policymakers, researchers, and advocacy groups through briefings and national webinars
- Led cross-agency collaboration on integrating real-world data into public health strategy, including work on interoperability, privacy, and governance
- Developed analytic roadmaps aligning Medicaid and APCD data with broader system performance goals

Temple and Rutgers University – Research Associate/Consultant **2009-2012**

- Conducted epidemiologic research on maternal and child health and environmental risk factors
- Performed statistical analyses and supported multi-state research initiatives
- Prepared reports and presentations for federal and state stakeholders
- Supported public health program evaluation and survey design

New Jersey Department of Health and Senior Services – Maternal Child Health Epidemiologist **2003-2008**

- Led statewide public health surveillance and epidemiologic analyses
- Conducted research using linked administrative datasets (Medicaid, vital records)
- Developed program evaluation models and health system performance metrics
- Contributed to hospital performance and patient safety reporting

UMDNJ School of Public Health, Department of Epidemiology - Research Specialist **2001-2003**

- Provided statistical and methodological support for epidemiologic research

- Conducted advanced data analyses and maintained research datasets
- Mentored graduate students on study design and data interpretation

Resident Medical Officer | Sanjeevan Hospital, Pune, India

1998-1999

- Provided inpatient and outpatient clinical care under supervision
- Conducted patient assessments and developed treatment plans
- Supported emergency care and maintained clinical documentation

Peer-Reviewed Publications

1. Jain, N.J., A.S. Faiz, P.A. Ohman-Strickland, John C. Smulian, and George G. Rhoads. "Educational Attainment of Grandmothers and Preterm Birth in Grandchildren." *Maternal and Child Health Journal*, 2020.
2. Potti, S., N.J. Jain, D.S. Mastrogiannis, and V. Dandolu. "Obstetric Outcomes in Pregnant Women with Diabetes Versus Hypertensive Disorders Versus Both." *Journal of Maternal-Fetal and Neonatal Medicine*, vol. 25, no. 4, April 2012, pp. 385-388.
3. Spiliopoulos, M., A. Kareti, N.J. Jain, L.K. Kruse, A. Hanlon, and V. Dandolu. "Risk of Peripartum Hysterectomy by Mode of Delivery and Prior Obstetric History: Data from a Population-Based Study." *Archives of Gynecology and Obstetrics*, vol. 283, no. 6, June 2011, pp. 1261-1268.
4. Potti, S., C.S. Sliwinski, N.J. Jain, and V. Dandolu. "Obstetrical Outcomes in Normal Weight and Obese Women in Relation to Gestational Weight Gain: IOM Guidelines and Cedergren Criteria." *American Journal of Perinatology*, vol. 27, no. 5, May 2010, pp. 415-420.
5. Madan, I., I. Puri, N.J. Jain, C. Grotegut, D. Nelson, and V. Dandolu. "Characteristics of Obstetric Intensive Care Unit Admissions in New Jersey." *Journal of Maternal-Fetal and Neonatal Medicine*, vol. 22, no. 9, September 2009, pp. 785-790.
6. Jain, N.J., L.K. Kruse, K. Demissie, and M. Khandelwal. "Impact of Mode of Delivery on Neonatal Complications: Trends Between 1997 and 2005." *Journal of Maternal-Fetal and Neonatal Medicine*, vol. 22, no. 6, June 2009, pp. 491-500.
7. Spiliopoulos, M., I. Puri, N.J. Jain, L. Kruse, D. Mastrogiannis, and V. Dandolu. "Amniotic Fluid Embolism Risk-Factors, Maternal and Neonatal Outcomes." *Journal of Maternal-Fetal and Neonatal Medicine*, vol. 22, no. 5, May 2009, pp. 439-444.
8. Jain, N.J., C. Denk, and L.K. Kruse. "Pre-Pregnancy Weight Status and Pregnancy Weight Gain." Brief. Trenton, NJ: New Jersey Department of Health and Senior Services, December 2007.
9. Asare, L.A., N.J. Jain, and L.K. Kruse. "Smoking Cessation in New Jersey." Brief. Trenton, NJ: New Jersey Department of Health and Senior Services, May 2007.
10. Jain, N.J., C.E. Denk, L.K. Kruse, and V. Dandolu. "Maternal Obesity: Can Pregnancy Weight Gain Modify Risk of Selected Adverse Pregnancy Outcomes?" *American Journal of Perinatology*, vol. 24, no. 5, May 2007, pp. 291-298.
11. Dandolu, V., N.J. Jain, E. Hernandez, and L. Kruse. "Shoulder Dystocia at Noninstrumental Vaginal Delivery." *American Journal of Perinatology*, vol. 23, no. 7, October 2006, pp. 439-444.
12. Omowunmi, Y.O., S. Sinha, E. Rovner, M. Perez-Lugo, N.J. Jain, K. Demissie, and M. Goldman. "Efficacy of Tobacco Dependence Treatment in the Context of a 'Smoke-Free Grounds' Worksite Policy: A Case Study." *American Journal of Industrial Medicine*, vol. 46, no. 2, 2004, pp. 180-187.
13. Jacobs, A.R., K. Demissie, N.J. Jain, and W. Kinzler. "Birthweight Discordance and Adverse Fetal and Neonatal Outcomes Among Triplets in the United States." *Obstetrics and Gynecology*, vol. 101, 2003, pp. 909-914.
14. Denk, C.E., L.K. Kruse, and N.J. Jain. "Surveillance of Cesarean Section Deliveries, New Jersey, 1999-2004." *Birth*, vol. 33, no. 3, September 2003, pp. 203-209.

Report and Memos

1. Jain, Neetu, Amy Gehrke, Avery Wendell, Eric Schone, and Alex Bohl. "Environmental Scan: Use of All Payer Claims Data for Population Health Measures and Implications for AHRQ's Area-Level Quality Indicators". Report submitted to the Agency for Healthcare Research and Quality. Washington, DC: Mathematica, April 2024
2. Gehrke Amy, Neetu Jain, Avery Wendell, Eric Schone, and Alex Bohl. "In-depth Environmental Scan: Preventive Quality Indicators in Emergency Department Settings. Report submitted to the Agency for Healthcare Research and Quality. Washington, DC: Mathematica, September 2024.
3. Jain, Neetu, Amy Gehrke, and Eric Schone. "Measuring Impacts of Social Determinants of Health with Area-Level Indicators: Environmental Scan." Report submitted to the Agency for Healthcare Research and Quality. Washington, DC: Mathematica, September 2023.
4. Gehrke Amy, Neetu Jain, and Eric Schone. "Environmental Scan of Area-Level Pediatric Quality Indicators." Report submitted to the Agency for Healthcare Research and Quality. Washington, DC: Mathematica, September 2023.
5. Jain, Neetu, Amy Gehrke, and Eric Schone. "Environmental Scan of Chronic Area-Quality Indicators and COVID-19," Report submitted to the Agency for Healthcare Research and Quality. Washington, DC: Mathematica, September 2022.

6. Jain, Neetu, and Deborah Chollet. "Medicare Payment for Telehealth." Health Issue Brief. Washington, DC: Mathematica, March 2022.
7. Jain, Neetu, Aaron Swaney, Hanzhi Zhou, and Eric Schone. "Adjusting Area-Level Indicators for the Prevalence of Medical Conditions: Environmental Scan." Report submitted to the Agency for Healthcare Research and Quality. Washington, DC: Mathematica, March 2022.
8. Jain, Neetu, Eric Morris, and Eric Schone. "Approaches to Socioeconomic Risk Adjustment for Area-Quality Indicators." Report submitted to the Agency for Healthcare Research and Quality. Washington, DC: Mathematica, July 2021.
9. Jain, Neetu, Eric Morris, and Eric Schone. "Developing a Prevention Quality Indicator for Preeclampsia and Eclampsia." Report submitted to the Agency for Healthcare Research and Quality. Washington, DC: Mathematica, April 2021.
10. Jain, Neetu, and Eric Schone. "Area-Quality Indicators (AQI) Method-Specific Environmental Scan Plan for Option Year 1—Local Variation in SES and Severity Adjustment for Population Measures." Memo submitted to the Agency for Healthcare Research and Quality. Washington, DC: Mathematica, September 2020.
11. Jain, Neetu, and Eric Schone. "Area-Quality Indicators (AQI) Method-Specific Environmental Scan Plan for Option Year 1—Local Variation in SES and Severity Adjustment for Population Measures." Memo submitted to the Agency for Healthcare Research and Quality. Washington, DC: Mathematica, September 2020.
12. Jain, Neetu, Eric Morris and Eric Schone. "Environmental Scan of Hypertension and Heart Failure-Specific Area-Quality Indicators." Report submitted to the Agency for Healthcare Research and Quality. Washington, DC: Mathematica, July 2020.
13. Jain, Neetu, Eric Morris, Eric Schone, Angela Flanagan, Linda Hyde, and Zabrina Gonzaga. "Addressing Variation in Socioeconomic Measures in Area-Level Quality Indicator Risk Adjustment Models." Report submitted to the Agency for Healthcare Research and Quality. Washington, DC: Mathematica, July 2020.
14. Jain, Neetu, KeriAnn Wells, and Tom Bell. "Vermont Total Cost of Care (TCOC) 2019 Results Through Q3." Memo submitted to the Green Mountain Care Board. Cambridge, MA: Mathematica, May 2020.
15. Jain, Neetu, KeriAnn Wells, and Tom Bell. "Vermont Total Cost of Care (TCOC) 2019 Results Through Q4." Memo submitted to the Green Mountain Care Board. Washington, DC: Mathematica, March 2020.
16. Morris, Eric, Neetu Jain, and Eric Schone. "Environmental Scan of Diabetes-Specific Area-Quality Indicators." Report submitted to the Agency for Healthcare Research and Quality. Washington, DC: Mathematica, March 2020.
17. Morris, Eric, Neetu Jain, and Eric Schone. "Environmental Scan of Area-Quality Indicators." Report submitted to the Agency for Healthcare Research and Quality. Washington, DC: Mathematica, September 2019.
18. Morris, Eric, Neetu Jain, and Jessica Ross. "Environmental Scan of Socioeconomic Status Methods." Report submitted to the Agency for Healthcare Research and Quality. Washington, DC: Mathematica, September 2019.
19. Libersky, Jenna, Neetu Jain, Su Liu, and Eric Morris. "1115 Managed Long Term Services and Supports Demonstrations: Technical Specifications for Monitoring Metrics." Report submitted to the Centers for Medicare & Medicaid Services. Washington, DC: Mathematica Policy Research, October 2018.
20. Kyler, Brandon, Amy Wodarek O'Reilly, Neetu Jain, and Roger Young. "Proposed Parallel PORT/ORT Standard Operating Procedures." Report submitted to the Centers for Medicare & Medicaid Services. Washington, DC: Mathematica Policy Research, October 2016.
21. Schurrer, John, Ann O'Malley, Claire Wilson, Nancy McCall, and Neetu Jain. "Evaluation of the Diffusion and Impact of the Chronic Care Management (CCM) Services: Draft Interim Report." Report submitted to the Center for Medicare & Medicaid Innovation. Washington, DC: Mathematica Policy Research, September 2016.
22. Williams, Nyna, Nalini Ambrose, Neetu Jain, Christina Marsh, Coral Ellis, Andrew Doy, Catherine Major, and Emily Mamula. "Information Gathering Report: Summary Report of Environmental Scan and Empirical Analysis." Report submitted to the Centers for Medicare & Medicaid Services. Washington, DC: Mathematica Policy Research, June 2015.

Conferences and Presentation

1. Jain, N.J., E. Schone, R. Boonyasai, W. Scott., S. Wang, H. Lu, X. Lin., and A. Bohl "Association of Socioeconomic Deprivation and Healthcare Access with Emergency Department Visits for Ambulatory Care Sensitive Conditions (PQEs)." Poster presentation at the AcademyHealth Conference, Minneapolis MN, June 2025.
2. Jain, N.J., E. Schone, R. Boonyasai, W. Scott., S. Wang, H. Lu, X. Lin., and A. Bohl "Association of Government Benefits Accessibility (GBA) with the Agency for Healthcare Research and Quality (AHRQ)'s Prevention Quality Indicators (PQIs)." Poster presentation at the AcademyHealth Conference, Washington DC, June 2024.
3. Jain, N.J., E. Schone, S. Wang, H. Lu, and X. Lin. "Race and Ethnic Disparities in Admissions for Chronic Obstructive Pulmonary Disease (COPD), Community Acquired Pneumonia (CAP) and Asthma in Adults and Children." Poster presentation at the AcademyHealth Conference, Washington, DC, June 2022.
4. Jain N.J., T. Janevic, J. Smulian and G. Rhoads. "The Intergenerational Change in Maternal Education and Risk of Preterm, Birth and Small-For-Gestational Age in White Non-Hispanic, Black Non-Hispanic and Hispanic Women in New Jersey." Presented at the Annual New York City Epidemiology Forum, Newark, 2018.

Neetu Jain - CV

5. McWilliams, R.M., N.J. Jain, and D.E. Wartenberg. "The Relationship Between Autism Spectrum Disorders and the Distribution of Hazardous Air Pollutants in Four NJ Counties." Presented at the International Society for Autism Research Conference, Toronto, 2012.
6. Mastrogiannis, D., M. Gonzales, N.J. Jain, and V. Dandolu. "Trial of Labor in the Diabetic Gravida: Success Rates and Outcomes." Poster presented at the American College of Obstetricians and Gynecologists Annual Clinical Meeting, San Francisco, 2010.
7. Potti, S., N.J. Jain, and V. Dandolu. "Obstetric Outcomes in Normal Weight and Obese Women in Relation to Gestational Weight Gain: Comparison Between Institute of Medicine Guidelines and Cedergren Criteria." Presented at the American College of Obstetricians and Gynecologists Annual Clinical Meeting, Chicago, 2009.
8. Jain, N.J., L. Kruse, K. Demissie, and M. Khandelwal. "Trends in Maternal and Neonatal Complications in New Jersey from 1997-2005." Presented at the Annual Maternal Infant and Child Health Epidemiology Conference, Atlanta, December 2007.
9. Denk, C.E., N.J. Jain, K. Aveni, and L.K. Kruse. "Complications Related to Cesarean Delivery, New Jersey, 1997-2005." Presented at the American Public Health Association Conference, Washington, DC, November 2007.
10. Jain, N.J., C.E. Denk, and L.K. Kruse. "Trends in Method of Delivery and Risk of Maternal Postpartum Complications and Readmission." Presented at the Annual Maternal Infant and Child Health Epidemiology Conference, Atlanta, December 2006.
11. Morton, I., N.J. Jain, and L.K. Kruse. "Identifying Birth Outcomes to Assisted Reproductive Births in New Jersey." Presented at the Annual Maternal Infant and Child Health Epidemiology Conference, Miami, December 2005.
12. Denk, C.E., N.J. Jain, and L.K. Kruse. "Surveillance of Cesarean Section Deliveries, New Jersey, 1999-2004." Presented at the Annual Maternal Infant and Child Health Epidemiology Conference, Miami, December 2005.
13. Jain, Neetu J. "Trends in Breast, Prostate, Colorectal, and Lung Cancer in Whites and Blacks in the United States 1989-1998." Master's thesis presented as a poster at the New Jersey Cancer Retreat, New Brunswick, NJ, 2001.

Professional Activities

- **Committee Member**, Mentoring Committee, Society for Epidemiologic Research (SER), 2025–Present
Contribute to the design and implementation of mentorship initiatives, including programming for annual meetings and year-round member engagement.
- **Business Representative**, NAHDO Annual Conference, New Orleans, LA, 2024
Engaged with state representatives and stakeholders to support acquisition of All-Payer Claims Database (APCD) data and strengthen data partnerships.
- **Abstract Reviewer**, AcademyHealth Annual Research Meeting, 2023
Reviewed conference submissions, including abstracts and research papers, in health services research.
- **Peer Reviewer**, European Journal of Obstetrics & Gynecology and Reproductive Biology
Conduct peer review of manuscripts related to reproductive health and clinical epidemiology.
- **Peer Reviewer**, Journal of Epidemiology & Community Health
Evaluate research submissions in epidemiology, population health, and public health policy.
- **Abstract Reviewer**, CDC Maternal and Child Health Conference
Assessed abstracts and proposals focused on maternal and child health research and practice.

Awards & Trainings

- **Ronald Altman Award** – NJ Public Health Association, 2007 (Outstanding work in public health and obesity research)
- **Trainings**: Multivariate regression modeling (AMCHP), Maternal Child Health Epidemiology (CDC), Medicaid Claims Data Workshop (ResDAC), Geospatial Analysis (CDC)

Languages

Hindi (reading and spoken), Gujarati (reading and spoken), Marathi (reading and spoken)