

## BARSHA GADAPANI PATHAK, MBBS, MD Community Medicine

### ACHIEVEMENTS

- Enrolled as a Ph.D. candidate at the Department of Global Public Health and Primary Care, University of Bergen, Norway, in November 2022.
- Invited Speaker at the 2nd Global Forum on Childhood Pneumonia, session "Next generation pneumonia researchers," organized by BMGF and La Caixa Foundation, Spain, 2023.
- Successfully secured research grants for primary projects from Indian Council Medical Research and Diamond Jubilee Society Trust (DJST), Seth GS Medical College & KEM Hospital, Mumbai.
- Published over 20 articles in scientific peer-reviewed journals (2018-2023)
- Coordinated and led research teams as Co-investigator in collaborative and multi-site projects.
- Awarded the Municipal Corporation Greater Mumbai (MCGM) Best Resident Award for being the best resident across various departments (specialty and super-specialty) at KEM Hospital, Mumbai, and the Parimala Subramaniyan Award for being the top resident in the Department of Community Medicine, Seth GSMC & KEM Hospital in 2019.
- Achieved the 3rd Rank in Maharashtra University of Health Sciences in 2019 (Subject-Community Medicine)

### PUBLICATIONS

1. **Pathak BG**, Bireswar Sinha, Neeraj Sharma, Sarmila Mazumder, Nita Bhandari. Effects of kangaroo mother care on maternal and paternal health: systematic review and meta-analysis. *Bulletin WHO*. May 2022
2. **Pathak BG**, Mathew G, Chandru V, Kamath M. Catalyzing healthcare accessibility through cashless payment gateways in India: a digital revolution, *The Lancet Regional Health-South East Asia*, October 2023, DOI:10.17605/OSF.IO/Q9VAM)
3. **Pathak BG**, Rahini S, Manapurath RM, Sharath BN, Gupta R, Goel S. Tobacco smoking and blood pressure: How are they related among the Indians? - A secondary analysis of National Family Health Survey (NFHS)-4 data. *J Family Med Prim Care*. 2022 Sep;11(9):5776-5784. doi: 10.4103/jfmpc.jfmpc\_166\_22. Epub 2022 Oct 14. PMID: 36505644; PMCID: PMC9731090.
4. Rukman M Manapurath\*, **Barsha Gadapani Pathak\***, Bireswar Sinha, Ravi Prakash Upadhyay, Tarun Shankar Choudhary, Tamsunaro Rongsen Chandola, Sarmila Mazumdar, Sunita Taneja, Nita Bhandari, Ranadip Chowdhury; Enteral Iron Supplementation in Preterm or Low Birth Weight Infants: A Systematic Review and Meta-analysis. *Pediatrics* August 2022; 150 (Supplement 1): e20220570921. 10.1542/peds.2022-0570921
5. Rukman M Manapurath, Mohan Kumar, **Barsha Gadapani Pathak**, Bireswar Sinha, Ravi Prakash Upadhyay, Tarun Shankar Choudhary, Tamsunaro Rongsen Chandola, Sarmila Mazumdar, Sunita Taneja, Nita Bhandari, Ranadip Chowdhury; Enteral Low-Dose Vitamin A Supplementation in Preterm or Low Birth Weight Infants to Prevent Morbidity and Mortality: A Systematic Review and Meta-analysis. *Pediatrics* August 2022; 150
6. **Barsha Gadapani Pathak**, Swati Deshpande, Rukman M Manapurath. The magnitude and Gender Specific Circumstances of Depression among Elderly Population Residing in an Urban Slum Area of a City in Maharashtra: A Mixed Method Study. *Indian J Public Health* 2020; 64:405-8. doi: 10.4103/ijph.IJPH\_501\_19
7. Manapurath R, **Gadapani B**, Pereira-da-Silva L. Body Composition of Infants Born with Intrauterine Growth Restriction: A Systematic Review and Meta-Analysis. *Nutrients*. 2022 Mar 4;14(5):1085. doi: 10.3390/nu14051085. PMID: 35268060; PMCID: PMC8912478.

8. **Barsha Gadapani Pathak**, Rukman M Manapurath. Comparison of Two Psychometric Scales to Detect Depression Among Old Adults Residing in a Slum Area of a Metropolitan City: GDS-15 and DASS-21. *Aging Medicine and Healthcare* 2021;12(3):114-119. doi:10.33879/AMH.123.2020.06019
9. **Barsha Gadapani Pathak**, Rukman M Manapurath. Appraising the Impact of and Knee Osteoarthritis on the Domains of Quality of Life among the Diabetic Patients - An Observational Research. *jemds*.2021;10(12):894-898.doi: 10.14260/jemds/2021/192
10. **Pathak BG**, Rahini S, Manapurath R. The proportion of hand and knee osteoarthritis and its associated risk factors among an urban diabetic population. *International Journal of Academic Medicine*. 2022;8:102 – 108
11. Rupali Sabale, \***Barsha Gadapani Pathak**, Rukman M Manapurath. Utilizing “Positive deviance inquiry” to explore factors influencing child health: A qualitative study. *J Edu Health Promot* 2021;10:35.doi: 10.4103/jehp.jehp\_1449\_20
12. Amit Bhondve, \***Barsha Gadapani Pathak**, Rukman M. Manapurath. Mixed-Method Analysis of Community Health Camps: A Novel Approach Beckoning. *Indian J Community Med* 2019;44:233-7. doi: 10.4103/ijcm.IJCM\_349\_18 9.
13. Rujuta Hadaye1, \***Barsha Gadapani Pathak**, Sujata Lavangare. Nutritional status of the student nurses of a tertiary health-care center – A mixed-method study. *J Family Med Prim Care* 2019;8:1028-34. doi: 10.4103/jfmpc.jfmpc\_314\_18
14. **Gadapani B**, Rahini S, Manapurath RM. Noncompliance of the postexposure prophylactic vaccination following animal bites reporting to a rural primary health center. *J Family Med Prim Care*. 2019;8(10):3258-3262.
15. Deshpande SR, \***Barsha Gadapani P**, Manapurath R. Analyzing the challenges and demotivating factors faced by accredited social health activist workers in tribal India in implementing their roles. *International Journal of Medical Science and Public Health*. 2019.
16. **Pathak Gadapani B**, Sable DR. A qualitative research to explore nutritional practices in Primi para women residing in Mumbai urban slums. *International Journal of Advanced Community Medicine*. 2019.
17. **Pathak BG**, Manapurath R. Combating the pandemic of COVID-19 in India: health care worker perspective. *International Journal of Community Medicine and Public Health*. 2020;7:2797.
18. Sabale R, Manapurath RM, Subrahmanya SU, **Pathak B**. "Written Formative Assessments with Peer-Assisted Learning" an Innovative Teaching Program for Postgraduate Students in Community Medicine. *Indian J Community Med*. 2022;47(1):34-38.
19. Deshpande SR, \***Pathak BG**, Rahini S, Mecca R. Envenomation cases reporting to a rural primary health care center in Maharashtra. *International Journal Of Community Medicine And Public Health*. 2018
20. **Pathak, B.**, Kamath, M. S., Mathew, G., Devarakonda, S., & V. (2021, July 8). Payment gateways/smart cards enabling the access to healthcare in India: A scoping review. <https://doi.org/10.17605/OSF.IO/Q9VAM>
21. Manapurath R, Hadaye R, Varughese C, **Gadapani B**. Burden of skin diseases: A camp-based cross-sectional study in a tribal area of Maharashtra. *Turk J Dermatol*. 2022/1/; 16(1):12-15. doi:10.4103/tjd.tjd\_111\_21.
22. Manapurath RM, Anto RM, **Pathak BG**, Malhotra S, Khanna P, Goel S. Diet and lifestyle risk factors associated with young adult hypertensives in India - Analysis of National Family Health Survey IV. *J Family Med Prim Care*. 2022 Sep;11(9):5815-5825. doi: 10.4103/jfmpc.jfmpc\_167\_22. Epub 2022 Oct 20. PubMed PMID: 36505631; PubMed Central PMCID: PMC9731089.
23. Manapurath RM, Hadaye R, **Gadapani B**. Normal Weight Obesity: Role of apoB and Insulin Sensitivity in Predicting Future Cardiovascular Risk. *Int J Prev Med*. 2022;13:31. doi:10.4103/ijpvm.IJPVM\_139\_20. eCollection 2022. PubMed PMID: 35392312; PubMed Central PMCID:PMC8980834.

24. Hadaye RS, Manapurath RM, **Gadapani BP**. Obesity Prevalence and Determinants among Young Adults, with Special Focus on Normal-Weight Obesity; A Cross-Sectional Study in Mumbai. *Indian J Community Med.* 2020 Jul-Sep;45(3):358-362. doi: 10.4103/ijcm.IJCM\_408\_19. Epub 2020 Sep 1. PubMed PMID: 33354019; PubMed Central PMCID: PMC7745795.
25. Deshpande S, **\*Pathak B**. Prevention of Leptospirosis: The Need of the Hour. *Int J Educ Res HealthSci* 2018;1(3):120-122.

## ONGOING PROJECTS

- Implementation research to promote the treatment of pneumonia in under-five children in a north Indian district to achieve high population-based coverage
- Implementation research to Scale-up and Evaluate the Impact of Immediate Kangaroo Mother (iKMC) Care on Newborn Outcomes
- Systematic reviews to update the WHO guidelines on the management of childhood pneumonia- World Health Organization
- Implementation research to develop an optimized model of comprehensive intervention package and delivery strategies to reduce population-based stillbirths in districts of Haryana, Rajasthan, and Maharashtra.

### Data analysis-phase:

- Baseline characteristics, experiences, and actions taken by women to address failure to conceive, among women in urban and peri-urban mid to low-socioeconomic neighborhoods of Delhi, North India
- Postpartum contraceptive practices among urban and peri-urban women in North India
- Prevalence of reproductive tract infections including sexually transmitted infections among women in urban and peri-urban mid to low socioeconomic neighborhoods of Delhi, North India.

## WORKSHOP, MEETINGS, AND CONFERENCES

Date	City	Country	Name
April 2023	Madrid	Spain	Global Forum on Childhood Pneumonia (Duration: 2 days)
April 2023	Delhi	India	Training on childhood pneumonia management guidelines (Duration: 2 days)
April 2023	Delhi	India	Economic Evaluation in Health Care – 13 and 14 April 2023
March 2023	Virtual	India	Thematic analysis with NVivo 12.
Feb 2023	Delhi	India	Meeting with Bill and Melinda Gates Foundation on Immediate Kangaroo Mother care.
Nov 2022	Delhi	India	National Dissemination of Key Findings of NFHS-5
Nov-Dec 2022	Bergen	Norway	Introduction to Implementation Science in global health (1-month course)
Oct 2022	Delhi	India	Longitudinal Data Analysis Workshop
Sep-Dec 2022	Washington (Virtual)	USA	Fundamentals of Implementation Science (3 months course)
Aug 2022	Delhi	India	Annual review meeting: Equifinance project

Aug 2022	Delhi	India	Attended the Scientific Program and Advisory Committee (SPAC) meeting
July 2022	Delhi (Virtual)	India	WHO protocol development workshop (Immediate Kangaroo Mother Care Project)
June 2022	Delhi	India	Review meeting: Children Investment Fund's Foundation project
May 2022	Delhi	India	Meeting with Haryana State authorities and the World health organization for discussion on the childhood pneumonia management guideline.
6-17 Nov 2021	Delhi (Virtual)	India	WHO Low birth weight Guideline Development meeting
July-Sep 2021	Amsterdam (Virtual)	Netherland	Course: Qualitative research method
Dec 2021	Pune	India	PRERNA Qualitative Research Workshop
Nov 2021	Delhi	India	Participated in WHO Guideline Development Group Meeting on micronutrients among low birth weight or pre-terms
May-Dec 2021	Ranchi (Virtual)	India	Diploma in Community Mental Health.
Nov 2021	Vellore	India	Antenatal, Intrapartum, and Postnatal Care Project: annual review meeting
7-9 Sep 2021	Vellore, Virtual Workshop	India	PRERNA Environmental Surveillance science meet.
Aug 2021	Delhi	India	ASER tool training by experts at Kalu Sarai office, Delhi
6-18 Jun 2021	Delhi (Virtual)	India	PRERNA Science Meeting- Early Child Development
Aug 2021	Delhi	India	Attended the Scientific Program and Advisory Committee (SPAC) meeting
Mar-Apr 2021	Vellore (Virtual)	India	Systematic Review Workshop (Protocol development)
Jan to May 2021	Virtual Training	India	Basics of Neuroscience, Duke University.
Jan 2021	Delhi (Virtual)	India	Grant proposal writing, planning, and management
12-30 Dec 2020	Virtual	India	Basics and data Management of Stata
5-7 Dec 2020	Delhi (Virtual)	India	Implementation Research workshop
Nov 2020	Delhi (Virtual)	India	Participated in the Advanced Statistical Learning by St. Johns Bangalore (5 days workshop)
Sep 2020	Delhi (Virtual)	India	Global scale for early development by WHO