### SAYEED UNISA

#### *Former Professor and Head, Department of Biostatistics and Epidemiology*

#### *International Institute for Population Sciences (IIPS), Deonar, Mumbai 400088, India*

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#### Work Experience

13 September to Date Adjunct Professor, School of Research Methodology

 Tata Institute of Social Sciences, Mumbai

1 July 2022 to 31 June 2023 Professor on an extension after superannuation at

 Department of Biostatistics and Epidemiology, IIPS

1 October 2021 to 30 June 2022 Professor and Head

 Department of Biostatistics and Epidemiology

12 August 2008 to 30 Sept. 2021 Professor (Head from April 2019 to September 2021)

 Department of Mathematical Demography and Statistics

 *International Institute for Population Sciences, India*

1 July 1991 to 11 August 2008 Successively, Reader /Senior Lecturer/Lecturer in

 Department of Mathematical Demography and Statistics

 *International Institute for Population Sciences, India*

May 2009 to July 2009 Visiting Professor

 *International Institute of Social Studies, The Hague,*

 *The Netherlands*

Professional Bodies Association Fellow of the Royal Statistical Society, London, Member of International Union for the Study of Population, Member of Nutrition Society (London), Member of Asian Population Association

#### RESEARCH INTEREST

Biostatistics and Epidemiology, Reproductive Health, Nutrition and Health Care, Infertility, Gender issues, Adolescent Education

**SKILLS**

Dr Unisa is proficient in developing intervention studies on nutrition and health with sample size estimation for different study designs and protocol preparation. She is an expert in inferential statistics, reliability analysis, factor analysis, cluster analysis, survival analysis and multivariate techniques. Dr Unisa is good at large-scale DHS data analysis using statistical packages (SPSS and STATA). Also, she has skills in collecting and analysing qualitative data from in-depth interviews, FGDs, and observation techniques. Dr Unisa is an editorial team member of BMC Women’s Health and a reviewer of more than 15 referred journals.

 **PUBLICATION SUMMARY**

* Books: six published
* Research Articles in peer-reviewed journals -94
* Research Articles in edited books/working papers -18
* Research Projects Reports and Factsheet: 60
* Papers presented at International Conferences and Invited Lectures: 53(Presented papers in India and 19 other countries)

**PUBLICATION DETAILS(BOOKS, AND ARTICLES)**

**A. Books**

1. Assisted Reproductive Technologies in the Global South and North: Issues, Challenges and Future, Edited by Rozee G.V. and **Sayeed Unisa**, Rutledge, London, 2016.
2. Population, Environment and Health Edited by, **Sayeed Unisa**, T,V,Sekhar, C. Chandershekhar, A.Singh, L.K.Dwivedi, M.R.S.Pradhan, IIPS and Rawat Publications, Jaipur, 2016.
3. Population, Gender and Reproductive Health Edited by F.Ram, **Sayeed Unisa** and T.V.Sekhar, IIPS and Rawat Publications, Jaipur, 2011.
4. Food Security and Health Status: A comparative study of Tribal and Non-tribal Households, by R.B.Bhagat, **Sayeed Unisa,** D.A. Nagdeve, and Prakash Fulpagare, Rajat Publication, New Delhi, 2018.
5. Role of Women’s Education in Shaping Fertility in India: Evidence from National Family Health Survey, Sulbha Parsuraman, T.K.Roy, Radha Devi, Balram Paswan, P.Arokiasamy, **Sayeed Unisa**, Himalaya Publishing House, Mumbai, 1999.
6. State-of-the-art Teaching of Demographic Courses in Various Institutions/Universities, **Sayeed Unisa**, IIPS Research Report Series 1995-96/No. 18 Mumbai (Online –Microfiche open Library ID Number OL640789M), 1996 (This is a project report considered as a reference book for information on demographic courses in many universities in India and other countries).

**B. Articles in Journals**

1. Gharge, S., Vlachopoulos,D., Skinner,A.M., Williams,C.A., Iniesta, R.R., and R.R., and Unisa,S., (2024)The effect of the Mid-Day Meal programme on the longitudinal physical growth from childhood to adolescence in India, Plos Global Public Health, <https://doi.org/10.1371/journal.pgph.0002742>
2. Dhillon,P., **Unisa, S**., Gupta, A., Saraswat, A., Sulaiman KM, and Pedgaonka, S., (2023) Utilisation of ANC services before and after the COVID-19 pandemic in selected resource-poor blocks of India: role of community health workers in Swabhimaan programme area, BMC Health Services Research, https://doi.org/10.1186/s12913-023-09781-1
3. Dwivedi, L. K., Bhatia, M., Bansal, A., Mishra, R., Jana, S., Subramanian, S. V., & **Unisa, S. (2023)** Role of seasonality variation in prevalence and trend of childhood wasting in India: An empirical analysis using National Family Health Surveys, 2005–2021, **Health Science Reports**,DOI: 10.1002/hsr2.1093
4. Pradhan M.R., **Unisa S**, Rawat R, Surabhi S, Saraswat A, Reshmi S. R, Sethi, V. (2023) Women empowerment through involvement in community-based health and nutrition interventions: Evidence from a qualitative study in India. **PLoS ONE** 18(4): e0284521. [https://doi.org/10.1371/journal. pone.0284521](https://doi.org/10.1371/journal.%20pone.0284521)
5. Sahoo, H., Dhillon, P., Anand, E., Srivastava, A., Usman, M., Agrawal, P.K., **Unisa, S. (2023)** Status and correlates of non-communicable diseases among children and adolescents in slum and non-slum areas of India's four metropolitan cities, **Journal of Biosocial Science**, https://doi.org/10.1017/S0021932022000530
6. **Unisa, S.,** Dhillon, P., Anand, E., Sahoo, H., & Agarwal, P. K.(2022) Data quality of birthweight reporting in India: Evidence from cross-sectional surveys and service statistics. **Social Science and Medicine-Population Health,** <https://doi.org/10.1016/> j.ssmph.2022.101220
7. Usman, M., Anand, E., Akhtar, S. N., Umenthala, S. R., Anwar, T., & **Unisa, S.**(2022) Prevalence and correlates of alcohol and tobacco consumption among research scholars: evidence from a cross-sectional survey of three Indian universities. **Drugs, Habits and Social Policy,** DOI 10.1108/DHS-09-2021-0053
8. Dhillon, P., Sahoo, H.,Usman, M., Srivastava, A., Agrawal, P. K., Johnston, R., **& Unisa, S.** (2022)Status and correlates of micronutrient deficiencies in slum and non-slum areas of India's four metropolitan cities: Investigation from CNNS, **Social Science & Medicine**, <https://doi.org/10.1016/> j.socscimed.2022.115259
9. Chauhan, S., Kulkarni, R., Bharat, S., Joshi,B., **Unisa, S.,** Singh, A., ... & Pasi, A(2022)Community Perceptions and Treatment-seeking Behaviour for Infertility in India: A Qualitative Research Study, **The Indian Journal of Social Work**, 83(3), 439-454
10. Prakash, S., Kumar, P., Dhillon, P., & **Unisa, S**.(2022)Correlates of access to sanitation facilities and benefits received from the Swachh Bharat Mission in India: analysis of cross-sectional data from the 2018 National Sample Survey**, BMJ open,** doi:10.1136/bmjopen-2021-060118
11. Siddiqui, L., Banerjee, A., Chokhandre, P., and **Unisa, Sayeed** (2021) Prevalence and predictors of musculoskeletal disorders (MSDs) among weavers of Varanasi, India: A cross-sectional study, **Clinical Epidemiology and Global Health**, 12(4):100918 DOI: 10.1016/j.cegh.2021.100918
12. Rawat, Ramu, **Unisa, Sayeed.** (2021) Association between nutritional status of scheduled caste children and their educational performance in rural Barabanki district, Uttar Pradesh, India, **Clinical Epidemiology and Global Health,** 12(4):100849 DOI: 10.1016/j.cegh.2021.100849
13. Das,A., Lakhan, T., **Unisa, S** (2021) Tuberculosis prevalence, knowledge of transmission and its association with vaccination of children, **Journal of Infection Preventions**, 22(11):175717742110127 DOI: 10.1177/17571774211012777
14. **Unisa, Sayeed**, Negi, Kanchan, Pujari, Sucharita and Chaurasia, Vaishali (2021) Do dietary patterns and morbidities have a relationship with primary infertility among women? A study from NFHS-4 (2015-16), India, **Journal of Biosocial Science**, First View, pp. 1-16 (https://doi.org/10.1017/S0021932021000274).
15. Onori, F., Dillion, P., Dinachnadra, K., Jaleel, A., Saraswat, A., Reshmi, R.S., **Unisa, Sayeed** and Sethi, V. (2021) An adaptation of the food insecurity experience scale (FIES) for measuring food insecurity among women in socially –backward communities, **Asian Journal of Agriculture and Development**, Vol. 18, No, 1 (https://doi.org/10.37801/ajad2021.18.1.5).
16. **Unisa, Sayeed** et al.(2020) Predictors of the diets consumed by adolescent girls, pregnant women and mothers with children under age two years in rural eastern India, **Journal of Biosocial Science**, https:// doi:10.1017/S0021932020000462.
17. **Unisa, Sayeed,**Lakhan, T.,Saraswat, A., and Borkotoky, K., (2020) Exploring the Variations in Adult Height of Population by Agro-Climatic Zones in India, **Journal of Family Welfare**, Volume 64, Special Issue, 2019-2020, pp 18-36.
18. **Unisa, S.,** Dwivedi, L.K., Lakhan, T., Joe, W., Chaurasia, V., Roy ,N., and Fulpagare, P., (2020) A Longitudinal Assessment of Correlates of Linear Growth and Stunting Status in Maharashtra, India, **Journal of Family Welfare**, Volume 64, Special Issue, 2019-2020, pp 1-17.
19. Patra, S., & **Unisa, S.** (2020). Addressing reproductive health knowledge, infertility and coping strategies among rural women in India. **Journal of Biosocial Science.** <https://doi.org/10.1017/S0021932020000371>.
20. Rai, S., and **Unisa, S., (2020)** Complementary Feeding Practices and Underweight Status among Children age 6-23 Months in India, **Journal of Family Welfare**, Volume 64, Special Issue, 2019-2020, pp 73-84.
21. Roy,A.K., Rao, N.,Siddiqui, L.A., Gandhi, H., Fulpagare, P., Chattopadhyay, A., Prakasam, C.P., and Unisa, S (2020) Food Consumption Pattern, Dietary Diversity and Nutrition Status of Mothers in the States of Maharashtra and Gujarat, **Journal of Family Welfare**, Volume 64, Special Issue, 2019-2020, pp 104-117
22. Saraswat**,** A., **Unisa, S.,**Reshmi, R.S., Dwivedi,L.K., Padgoanker, S., and Sethi, V., (2020) Assessment of Nutritional Status of Pregnant Women Based on Mid-Upper Arm Circumference(MUAC) and Associated Factors in Poverty Pockets of Eastern India, **Journal of Family Welfare**, Volume 64, Special Issue, 2019-2020, pp 134-145.
23. Govil, D, Panda, B.K.., Gupta,A., Chattopadhyay, A., Fulpagare, P., and **Unisa, S**. (2020). Understanding the Burden of Food Insecurity and Undernutrition in the Western Region of India: An insight from CNSM and CNSG data, **Journal of Family Welfare**, Volume 64, Special Issue, 2019-2020, pp 85-103.
24. Narzary,P.K., Kumar,D., Jadhav,A., Shrestha,K.P., Prakasam, C.P., Pedgaonkar,S.P.K., and Unisa, S.,(2020) Home Deliveries and Risk of Morbidity among Children during Neonatal Period in Gujarat, **Journal of Family Welfare**, Volume 64, Special Issue, 2019-2020, pp 146-156.
25. Usman, M., Anand, E., Siddiqui, L., **Unisa, Sayeed** (2020) Continuum of maternal health care services and its impact on child immunization in India: an application of the propensity score matching approach, **Journal of Biosocial Science**, <https://doi:10.1017/S0021932020000450>,
26. Reshmi R. S., Dinachandra K., Bhanot A., **Unisa, Sayeed**., et al., (2019). Context for layering women’s nutrition interventions on a largescale poverty alleviation program: Evidence from three eastern Indian states. **PloS one**, 14(1). e0210836. <https://doi.org/10.1371/journal.pone.0210836>.
27. Madan, EM.,Frongillo, EA, **Unisa, Sayeed**., et al.(2020) Effect of Differences in Month and Location of Measurement in Estimating Prevalence and Trend of Wasting and Stunting in India in 2005-2006 and 2015-2016, **Current Developments in Nutrition** 4(6):nzaa092, DOI: 10.1093/cdn/nzaa092,
28. Sethi V., …….. .**Unisa, Sayeed**. and Subramanian S. V. (2020) Levels and determinants of malnutrition among India's urban poor women: An analysis of Demographic Health Surveys 2006 and 2016, **Maternal and Child Nutrition**, DOI: 10.1111/mcn.12978
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30. Sethi V., Dinachandra K., Murira Z.,… .**Unisa Sayeed**. and Subramanian S. V. (2019). Nutrition status of nulliparous married Indian women 15-24 years: Decadal trends, predictors and program implications. **PloS One**, 14(8), e0221125, DOI: 10.1371/journal.pone.0221125
31. Maitra, C., Sethi, V., **Unisa, Sayeed** . Shankar, S. (2019) Household food Insecurity and maternal and child nutritional status: Evidence from Maharashtra, **Review of Income and Wealth**, 65(2), Doi.org/10.1111/roiw.12436
32. Rozée, G.V., **Unisa, Sayeed**, and Elise de La Rochebrochard (2019), Sociodemographic characteristics of 96 Indian surrogates: Are they disadvantaged compared with the general population**?** **PLos ONE** , https://doi. org/10.1371/journal.pone.0214097.
33. Sethi V., Bhanot A.,….,Reshmi R. S. Pedgaonkar, S., Dwivedi, L.K.,……**Unisa, Sayeed**.(2019) Integrated multisectoral strategy to improve girls’ and women’s nutrition before conception, during pregnancy and after birth in India (Swabhimaan): protocol for a prospective, non-randomised controlled evaluation. **BMJ Open**, e031632. http://dx.doi.org/10.1136/bmjopen-2019-031632
34. Sethi, V., Gupta, N., Pedgaonkar, S., Saraswat, A., Singh, K. D., Rahman,H.U., Wagt A.De and **Unisa, Sayeed** (2019) Mid-upper arm circumference cut-offs for screening thinness and severe thinness in Indian adolescent girls aged 10–19 years in field settings, **Public Health** **Nutrition**, doi:10.1017/s13689800190000594.
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37. Anand, Enu, **Unisa, Sayeed** (2018) The Nuptial Preference Change for the Men Belonging to Poor Sex Ratio Regions? A Context Analysis Approach based on Matrimonial Advertisements, **Demography India**, Special Issue, 91-99.
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39. Chauhan, Sanjay, **Unisa, Sayeed,** Joshi B., Kulkarni, R., Singh A., Subramanian, T. et al. (2018). Capacity assessment of district health system in India on services for prevention and management of infertility**.** **Indian Journal of Community Medicine**, Volume 43, pp19-23.
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41. **Unisa, Sayeed,** Barkkotoky, K.(2017). An appraisal of anthropometric data and factors influencing height of Indian population**.** **Demography India,** Vol.46, Issue 1,pp 22-37.
42. Sethi, Vani, Maitra, Chandana, Avula, Rasmi, **Unisa, Sayeed,** Bhalla, Surbh. (2017). Internal validity and reliability of experienced based on household food insecurity scales in Indian settings**.** **Agriculture and Food Security**, Volume 6, Issue 2, Doi:10.1189/s40066-017-0099-3.
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47. Patra, Shraboni, **Unisa, Sayeed.** (2017). Female infertility in India: Causes, treatment and impairment of fertility in selected districts with high prevalence. **Global Journal of Medicine and Public Health**, Volume 6, No.4, pp. 1-11.
48. Saraswat, Abhishek, **Unisa, Sayeed.** (2017). A qualitative study examining psychosocial distress and coping mechanism among orphan and vulnerable children living in institutional care in New Delhi. **Journal of Health and Social Sciences**, Volume 2, Issue 2, pp 195-208.
49. Prusty, Ranjan, **Unisa, Sayeed.** (2017). Effect of social support networks on maternal knowledge of child health**.** **Journal of Health and Social Sciences**, 2(1), 99-118.
50. Rozee G.V. and **Unisa, Sayeed**.(2015).Surrogacy as a Growing Practice and a Controversial Reality in India: Exploring New Issues for Further Researches. **Journal of Women's Health, Issues & Care**, Vol. 4 Issue 6 doi:http://dx.doi.org/1.04172/2325-9795.1000211
51. **Unisa**, **Sayeed**, Dwivedi,L.K., Reshmi, R.S., Kumar, K.(2015) .Missing Age of Population in Indian Censuses during the Last 50 Years: Prevalence, Trend and Differentials. **Social Science Spectrum,** Vol.1, No.1, pp8-19.
52. Rozee G.V. and **Unisa, Sayeed**.(2015). Surrogacy from reproductive rights perspective: The case of India. Autrepart, Volume 24, Issue 3, pp 377-389.
53. Borkotoky,K., **Unisa, Sayeed,** Gupta, A.K. (2015). Intergenerational Transmission of Education in India: Evidence from a Nationwide Survey. **International Journal of Population Research**, Vol. 2015, Article ID 251953, 11 pages, http://dx.doi.org/10.1155/2015/251953
54. Anand**,** E., **Unisa, Sayeed,** and Singh, J.(2015). Menstrual Hygiene Management among Young Unmarried Women in India, **Social Science Spectrum**, Vol.1, No.1, pp 20-31.
55. Singh, R.K. **Unisa, Sayeed**, Patra, Shraboni. (2015) Self-reported Reproductive Morbidity and Pregnancy Outcome among Currently Married Women in India, **Social Science Spectrum**, Vol.1, No.2, pp 106-113.
56. Rozee G.V. and **Unisa, Sayeed**. Surrogacy from reproductive rights perspective: The case of India. **Autrepart**, (70), pp 165-183.
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63. **Gogoi M.,** Sayeed Unisa and Prusty R.K.(2014) Utilization of Maternal Health Care Services and Reproductive Health Complications in Assam, India. **Journal of Public Health.** (DOI 10.1007/s10389-014-0614-y)
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65. Borkotoky K., and Unisa,Sayeed (2013)**.** Educational progress in India in the Context of Out-of-School Children. **International Research Journal of Social Sciences**. *Vol. 2(5),* 6-14, May (2013).
66. Prusty R.K., **Unisa Sayeed**. (2013). Reproductive Tract Infections and Treatment seeking behavior among married adolescent women 15-19 years in India. **International Journal of MCH and AIDS**. 2(1), pp 1-8. ISSN 2161-8674
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3. **Unisa, Sayeed**, Chhattopadhyay, A Fulpagare P. and Sinha A. (2016). Food security and nutritional status of children in Maharashtra**, Working Paper 12**, IIPS, Mumbai.
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13. Malik, Bhawan, and **Unisa, Sayeed .**(2008). Pattern of morbidity among women in India**.** In A. Ranjan (Ed.) **Population and Health, India**, Shyam Institute, Bhopal
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**CAREER HIGHLIGHTS**

2021 and 2013 Chairperson of IUSSP Session on Correlates of Infertility and Assisted Reproduction

2019- till date Advisory Committee Member -*‘Centre of Excellence* (CoE)’ on Public Health Nutrition (PHN) with the support of UNICEF

2018-2019 TAG member of CES, MoHFW and UNICEF

2017 Review Committee Member of Population Research Centers, Ministry of Health and Family Welfare

2017-18 Advisory Panel Member of NCEAR National Data Invention Center, NCEAR

2017-18 Programme Committee Member of Centre for Excellence on Adolescents and Youth, TISS and UNFPA

2012-17 Technical Advisory Member of Indian Human Development Survey, NCEAR

2015-17 Expert in the Commission of Inquiry on Socio-Economic and Educational Condition of Muslims, Government Telangana

2016 TAG Member of AIIMS Patna, Bhubaneswar, Raipur for Swabhimaan Impact Evaluation Baseline Survey

2009 Financial grants to carry out research work on ‘Prenatal diagnostic techniques and sex ratio at birth in India’ at the International Institute for Social Studies, Netherlands under a bilateral exchange programme of social scientists through ICSSR and NWO (Netherland Government)

2007 Resource Person of 4th Asia Pacific Conference on Reproductive and Sexual Health and Rights, October 29-31, 2007, Hyderabad, India

2006 Chairperson of the session “Access to Education: Levelling the Playing Field” in the seminar on Gender and Access in South Asia, Organized by International Union for Scientific Study of Population (IUSSP) – Bangladesh Institute of Development Studies(BIDS), Dhaka, Bangladesh, November 14-18 2006.

2004 Resource person for The Indo-US Joint Working Group on Contraception and Reproductive Health, Department of Biotechnology, Government of India, and National Institute of Child Health and Human Development, NIH, USA

2001 The Royan International Research Award for outstanding research on Infertility, UNFPA Iran and The Royan Institute of Infertility, Iran

1998 Ford Foundation Fellowship for attending a Course at the London School of Hygiene and Tropical Medicine, London

1996 Ford Foundation award for research work on ‘Social Psychological Consequences of Childlessness in Andhra Pradesh, India (This study was selected in the international competition of proposals on reproductive health by UNDP/UNFPA/WHO/World Bank/Ford Foundation