

Dr. Sumit Kumar Das

Designation: Scientist-I

Email id: sumitaiimsbiostat@gmail.com

About

Dr. Sumit Kumar Das is a Scientist-I in the Department of Biostatistics at the All India Institute of Medical Sciences (AIIMS), New Delhi. He holds a Ph.D. in Biostatistics from the National Institute of Mental Health and Neurosciences (NIMHANS), Bengaluru. His scholarly work integrates biostatistics, epidemiology, and psychometric modelling, utilizing advanced statistical methodologies to improve outcomes in population health and clinical research. He has extensive experience in analysing large-scale population and health survey data using advanced statistical techniques. Dr. Das has collaborated on multidisciplinary clinical and public health research, with publications in leading international peer-reviewed journals. His work focuses on developing robust statistical methods and generating evidence to inform healthcare policy, epidemiology, and medical research.

Awards and Fellowship

- 1) Received P.N. Maribhat gold medal for best dissertation in M.Phil. in Biostatistics and Epidemiology, International Institute for Population Sciences, Mumbai, India, 2016-17.
- 2) Qualified Indian Council of Medical Research- Junior Research Fellowship (ICMR-JRF), 2016 in Social Sciences
- 3) Qualified University Grant Commission - National Eligibility Test (UGC-NET) for eligibility for assistant professor, 2016 for population studies
- 4) Awarded ICMR grant of Rs. 1.5 lakh for attending conference titled IUSSP research conference on population poverty and inequality held at Institute for social research, University of Michigan, USA during 27-29 June, 2019.
- 5) Indian Association for Social Sciences and Health (IASSH) Best Publication Awards for Young Researchers-2021 and 2025

Research Projects

NA

Publications

1. Das SK, Ladusingh L. Why is the inpatient cost of dying increasing in India? *PLoS One*. 2018;13(9):e0203454. doi:10.1371/journal.pone.0203454
2. Das SK, Philip M, VS B, Sudhir PM. Factor structure of Hewitt-Flett Multidimensional Perfectionism Scale: Challenges and a systematic review of methods. *Indian J Posit Psychol*. 2020;11(3). doi:10.15614/ijpp/2020/v11i3/207081
3. Mishra V, Burma AD, Das SK, et al. COVID-19-hospitalized patients in Karnataka: survival and stay characteristics. *Indian J Public Health*. 2020;64(6):221-224. doi:10.4103/ijph.IJPH_486_20
4. Burma AD, Mishra V, Das SK, et al. Monitoring and Surveillance of COVID-19 Survival and Stay Characteristics: A Need for Hospital Preparedness in India. *Disaster Med Public Health Prep*. 2020;14(4):e15-e16. doi:10.1017/dmp.2020.251
5. Khan J, Das SK. The burden of anthropometric failure and child mortality in India. *Sci Rep*. 2020;10(1):20991. doi:10.1038/s41598-020-76884-8
6. Dutta D, Debnath M, .. Das SK ..Nagappa M, et al. Antecedent infections in Guillain-Barré syndrome patients from south India. *J Peripher Nerv Syst*. 2021;26(3):298-306. doi:10.1111/jns.12459
7. Das SK, Burma AD, Amudhan S, et al. Do children in India grow well into adolescents? Longitudinal analysis of growth transitions from Young Lives panel survey in India. *Public Health*. 2022;202:18-25. doi:10.1016/j.puhe.2021.10.010
8. Zacharias L, Christy J, Roopesh BN, Binu VS, Das SK, Sekar K. Development of an instrument on psychosocial adaptation for people living in a disaster-prone area. *Int J Disaster Risk Reduct*. 2022;68:102716. doi:10.1016/j.ijdr.2021.102716
9. Das SK, Mishra US, Das M, Das P. Perceptions of gender norms and sex-typed cognitive abilities among Indian adolescents—A study of Andhra Pradesh and Telangana. *Child Youth Serv Rev*. 2022;135:106388. doi:10.1016/j.childyouth.2022.106388
10. Patel A, Nair BVS, Das SK, Kumar P, Sharma PSVN. Re-examining psychometric properties of fertility problem inventory: A clinic-based study from India. *J Hum Reprod Sci*. 2022;15(2):177-186. doi:10.4103/jhrs.jhrs_154_21

11. Dutta D, Debnath M, .. Das SK, Seshagiri DV, et al. Impact of antecedent infections on the antibodies against gangliosides and ganglioside complexes in Guillain-Barré syndrome: a correlative study. *Ann Indian Acad Neurol.* 2022;25(3):401-406. doi:10.4103/aian.aian_121_22
12. Dutta D, Nagappa M, .. Das SK, Sreekumaran Nair BV, et al. Variations within Toll-like receptor (TLR) and TLR signaling pathway-related genes and their synergistic effects on the risk of Guillain-Barré syndrome. *J Peripher Nerv Syst.* 2022;27(2):131-143. doi:10.1111/jns.12484
13. Das SK, Khan J. Timeliness in the uptake of hepatitis B birth dose among Indian children under age five: A population-based study. *Vaccine.* 2023;41(37):5368-5375. doi:10.1016/j.vaccine.2023.07.015
14. Sanghvi P, Mehrotra S, Das SK, Sharma MK. Barriers to Seek Professional Help for Mental Health Scale: Development and Psychometric Validation. *Indian J Psychol Med.* 2024;02537176241256480. doi:10.1177/02537176241256480
15. Mitra S, Panda S, .. Das SK, Thakar A, et al. Quality of life and swallowing outcomes following major glossectomy: A prospective single-center experience. *Head Neck.* 2024;46(3):599-608. doi:10.1002/hed.27612
16. Srikanth MVVS, Arumugaswamy PR, ..Das SK, Rathore YS, et al. Comparison of inflammatory markers in low-pressure pneumoperitoneum with deep neuromuscular block versus standard pressure pneumoperitoneum among patients undergoing laparoscopic cholecystectomy for gallstone disease: a randomized control trial. *Surg Endosc.* 2024;38(8):4648-4656. doi:10.1007/s00464-024-11026-z
17. Sonu HS, Das SK, Tony R, Binu VS. Risk and protective factors of miscarriage: Evidence from a nationally representative sample of women in India. *J Fam Med Prim Care.* 2024;13(9):3879-3886. doi:10.4103/jfmpe.jfmpe_329_24
18. Khan MA, Das SK. Revisiting Factors Influencing Under-Five Mortality in India: The Application of a Generalised Additive Cox Proportional Hazards Model. *Int J Environ Res Public Health.* 2024;21(10):1303. doi:10.3390/ijerph21101303
19. Das SK, Khan MA. Longitudinal analysis of growth and nutritional disparities across socio-demographics from early childhood to adolescence: Findings from the Indian cohort of the Young Lives Survey. *Trop Med Int Health.* 2024;29(11):951-963. doi:10.1111/tmi.14050
20. Das SK, Philip M, Sudhir PM, Binu VS. Psychometric Evaluation of Schwarzer & Jerusalem's General Self-Efficacy Scale Among Indian Adolescents: A Factor Analysis and Multidimensional Item Response Theory Approach. *Meas Instrum Soc Sci.* 2024;6:1-19. doi:10.5964/miss.13651
21. Kalsotra S, Jain V, .. Das SK, Gupta Y, et al. Prevalence and Proposal for a Predictive Nomogram to Identify Low Bone Mineral Density in Children with Juvenile Idiopathic Arthritis. SSRN. 2024. Accessed July 17, 2026. <https://acrabstracts.org/abstract/prevalence-and-risk-factors-of-low-bone-mineral-density-in-children-with-juvenile-idiopathic-arthritis/>
22. Dawar A, Haidrus R, Das SK. Vitamin C mesotherapy with microneedling for gingival depigmentation: A case study. *Clin Adv Periodontics.* 2025. doi:10.1002/cap.10327
23. Upadhyaya S, Das SK, Sri TH, Tiwari KH. Effects of Probiotic Supplementation on Endurance Performance: A Systematic Review. *Nutr Today.* 2025. doi:10.1097/NT.0000000000000737
24. Gupta A, Dagar G, Das SK, et al. Prognostic value of circulating HPV cell-free DNA in cervical cancer using liquid biopsy. *Sci Rep.* 2025;15(1):1-9. doi:10.1038/s41598-025-93152-9
25. Ahuja R, Imran S, .. Das SK, Tembhre MK, et al. Longitudinal trends in immunological biomarkers and predictors of relapse in pemphigus treated with rituximab: A prospective cohort study. *Indian J Dermatol Venereol Leprol.* 2025. doi:10.25259/IJDVL_704_2025
26. Gupta V, Dawar A, Das SK, et al. Cardiovascular Biomarkers in Periodontitis: A Systematic Review and Meta-Analysis. *Oral Dis.* 2025. doi:10.1111/odi.70084
27. Hussain SY, Garg R, Jain D, Kumar A, Kumar S, Das SK. Development and validation of a questionnaire for assessment of retention of knowledge after Basic Cardiopulmonary Life Support (BCLS) training in healthcare workers. *Indian J Anaesth.* 2025;69(12):1399-1403. doi:10.4103/ija.ija_741_25
28. Halder S, Meena J, .. Das SK, Singhal S, et al. Prognostic significance of neutrophil-to-lymphocyte and platelet-to-lymphocyte ratios in predicting response to neoadjuvant chemotherapy in advanced high-grade serous ovarian cancer: a prospective study. *Eur J Obstet Gynecol Reprod Biol.* 2025;114901. doi:10.1016/j.ejogrb.2025.114901

29. Das SK. Inequalities in pentavalent vaccination coverage and timeliness in India: Insights from the National Family Health Survey (2019–21). In: Mandowara P, ed. *Advances in multidisciplinary research and development*. Vol 20. Scripown Publications; 2026:208-222. doi:10.63258/amrd.vol.20
30. Das SK. Effect of Cognitive Abilities on Urinary Incontinence among Elderly in India: Evidence from the Longitudinal Ageing Study in India (LASI), Wave I. In: Mandowara P, ed. *Advances in multidisciplinary research and development*. Vol 20. Scripown Publications; 2026:189-207. doi:10.63258/amrd.vol.20
31. Kapoor I, Akhil MS, Prabhakar H, Mahajan C, Das SK. Effect of age variability on clinical outcome of patients undergoing awake craniotomy. *Egypt J Neurosurg*. 2026;41(1):59. doi:10.1186/s41984-025-00482-x
32. Yadav SK, Panigrahi A, .. Das SK ..Pathak AK, et al. Accommodative Demand and Near Addition in Early-Onset Primary Angle-Closure Disease: A Comparative Study. *Ophthalmic Physiol Opt*. 2026:1-7. doi:10.1007/s44402-026-00105-4