



DR. ASHWANI KUMAR MISHRA

PROFESSOR OF BIOSTATISTICS

PERSONAL PROFILE

A Professor of Biostatistics with extensive expertise in epidemiology and medical research, focusing on substance use, clinical epidemiology, and innovative statistical methodologies. Actively engaged in high-impact research, teaching, and scholarly publications.

CONTACT DETAILS

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SKILLS AND EXPERTISE

Broad Domain: Epidemiology, Biostatistics

Sub-Domain: Substance Abuse, Clinical Epidemiology, Medical Epidemiology, Dimension Reduction Techniques, Computational Statistics

LANGUAGES

- English
- Hindi
- Maithili

EDUCATIONAL HISTORY

- PhD in Statistics
- MSc in Statistics
- BSc in Statistics and Mathematics

TOTAL NUMBER OF PUBLICATIONS TO DATE

• Thesis	2
• Peer-Reviewed Publications	106
• Book Chapters	4
• Edited Manuscript	36
• Technical Reports	11
Total	159

DETAILS OF PUBLICATIONS (SINCE 2000 ONWARDS)

Thesis:

- Mishra AK, Nath DC, Singh U, Prasad KN, Gupta RK, Pandey CM. The Epidemiological Aspects of Taenia solidum Infection in a Rural Community of Northern India. Demography India, 2009;38(2): 307-318.
- AK Mishra, CM Pandey. Some Epidemiological Models for Parasitic Infections: Comparison between Traditional and Hierarchical Logistic Regression Methods (2007). Bulletin of the International Statistical Institute-LXII (2007), 5776-5779.

Official Statistics

- Ambekar A, Agrawal A, Rao R, Mishra AK, Khandelwal SK, Chadda RK, on behalf of the group of investigators for the National Survey on Extent and Pattern of Substance Use in India (2019). Magnitude of Substance Use in India. New Delhi: Ministry of Social Justice and Empowerment, Government of India.

Sood A, Mishra A, Ambekar A. Trends in alcohol consumption and expenditure: Analysis of household data from a nationally representative sample from India. *Asian J Psychiatry*. 2019 Feb 22; 40:116-123.

- Atul Ambekar, Ravindra Rao R, Alok Agrawal, Ashwani K Mishra, Rajesh Kumar, Manish Kumar. Size Estimation of Opioid Dependent Population in Punjab – Punjab Opioid Dependence Survey. New Delhi: Ministry of Social Justice and Empowerment, Government of India; 2015.

Theoretical Statistics

- Verma V, Verma A, Mishra AK, Khan HT, Nath DC, Narang R. Bayesian Estimation of Gender Differences in Lipid Profile, Among Patients with Coronary Artery Disease. *Handbook of Intelligent Computing and Optimization for Sustainable Development*. 2022 Feb 25:753-69.
- Verma V, Mishra AK, Verma A, Khan HT, Nath DC, Narang R. Impact of gender on the lipid profile of patients with coronary artery disease: a Bayesian analytical approach. In *Smart Computational Intelligence in Biomedical and Health Informatics 2021 Sep 27* (pp. 1-12). CRC Press.
- Verma, V., Mishra, A.K., Dhawan, A. et al. Diversity in Substance use behaviour among street children of Delhi under the Bayesian paradigm. *BMC Medical Research Methodology* 20, 291 (2020).
- Ashwani Kumar Mishra (IN). *Handbook of Item Response Theory Volume Three: Applications*. 2019, ISCB, 68:26.
- Ashwani Kumar Mishra (IN). *Multivariate Analysis with LISREL*. 2017, ISCB, 63, 45.

Epidemiology of Drug Use

- Singh, R., Gupta, R., Grover, T., Ambekar, A., Jain, R., Vaswani, M., Mishra, A., & Sharma, A. (2023). Role of the Serotonin and GABAA Receptor Gene Polymorphisms in Patients with Alcohol Dependence. *Asian Journal of Psychiatry*, 80, 103326. <https://doi.org/10.1016/j.ajp.2022.103326>.
- Ghosh, S., Jain, R., Rao, R., Mishra, A. K., & Jhanjee, S. (2022). Does ethyl glucuronide in hair correlate with alcohol consumption? A comparative study with other traditional biomarkers among individuals with alcohol dependence syndrome. *Alcohol*. <https://doi.org/10.1016/j.alcohol.2022.10.005>.
- Singh VV, Sarkar S, Chadda RK, Mishra AK, Dhawan A. Reasons for leaving treatment among patients with opioid dependence: A 3-month prospective follow-up study. *Journal of Opioid Management*. 2022 Sep-Oct;18(5):455-466. DOI: 10.5055/jom.2022.0739. PMID: 36226785.
- Singh, R., Gupta, R., Grover, T., Ambekar, A., Jain, R., Vaswani, M., Mishra, A., & Sharma, A. (2022). "Role of the Serotonin and GABAA Receptor Gene Polymorphisms in Patients with Alcohol Dependence". *Asian Journal of Psychiatry*, 103326. <https://doi.org/10.1016/j.ajp.2022.103326>.
- Singh G, Kaloiya GS, Dhawan A, Mishra AK, and Balhara YPS. Does Cognitive Therapy Change the Early Maladaptive Schemas in Individuals with Alcohol Dependence? Evidence from a Randomized Controlled Trial. *Indian J Psychol Med*. 2022; XX:1–8.
- Singh G, Kaloiya GS, Dhawan A, Balhara YPS, and Mishra AK. The Extent of Endorsement of Distal to Proximal Dysfunctional Cognitions in Individuals with Alcohol Dependence: A Comparative Cross-Sectional Study in the Indian Context. *Indian J Psychol Med*. 2022;44(3):239–245.
- Saini R, Parmar A, Rao R, Mishra AK, Ambekar A, Agrawal A. Psychiatric and Substance Use Comorbidities among People who Inject Drugs in India: A Cross-Sectional, Community-Based Study. *World Soc Psychiatry* 2021; 3:195-202.
- Sarkar S, Sood E, Bhad R, Mishra A. Validated scales for substance use disorders in the geriatric population: A scoping review. *J Geriatr Ment Health* 2021; 8:70- 6.
- Singh VV, Dhawan A, Chadda RK, Mishra AK, and Sarkar S. A Prospective Three-Month Naturalistic Follow-Up Study of Outcomes of Patients with Opioid Dependence Discharged on Buprenorphine or Oral Naltrexone. *Indian J Psychol Med*. 2022; XX:1–7.
- Ghosh, S., Jain, R., Singh, S. et al. A simplified approach for determination of urinary ethyl glucuronide by gas chromatography–mass spectrometry. *J. Anal. Sci. Technol*. 12, 35 (2021). <https://doi.org/10.1186/s40543-021-00290-6>.
- Singh A, Rao R, Chatterjee B, Mishra AK, Kaloiya GS, Ambekar A. Cognitive functioning in patients maintained on buprenorphine at peak and trough buprenorphine levels: An experimental study. *Asian J Psychiatry*. 2021; 61:102697.
- Anju D, Mishra AK, Ambekar A, Chatterjee B, Agrawal A, Bhargava R. Estimating the size of substance use among street children in Delhi using Respondent-Driven Sampling (RDS). *Asian J Psychiatry*. 2020(48):101890.
- Atul Ambekar, Goyal SG, Ambekar A, Jain R, Mehta MM, Mishra AK. Intravenous Buprenorphine does not impair psychomotor and cognitive functioning in opioid dependent patients using oral dextropropoxyphene: A randomized double-blind crossover study. *J Mental Health Hum Behave* 2020; 25:45-52.
- Saini R, Rao R, Parmar A, Mishra AK, Ambekar A, Agrawal A, Dhingra N. Rates, knowledge and risk factors of non-fatal opioid overdose among people who inject drugs in India: A community-based study. *Drug Alcohol Rev*. 2020;39(1):93-97. doi:10.1111/dar.13016.
- Gupta S, Lal R, Ambekar A, Mishra AK, Rao R. The pattern of alcohol use and its relationship with consequences among problem alcohol users: A community-based cross-sectional study from India. *Indian J Psychiatry* 2020; 62:152-8.
- Dhagudu NK, Ambekar A, Agrawal A, Rao R, Mishra AK, Jain R, Singh S. Is there enough naloxone to deter the diversion? Effect of concurrent administration of intravenous naloxone on opioid agonist effects of intravenous buprenorphine: A randomized, double-blind, within-subject, crossover study among opioid-dependent subjects. *Drug Alcohol Rev*. 2020. DOI: 10.1111/dar.13057.
- Tripathi R, Dhawan A, Rao R, Mishra AK, Jain R, Sinha S. Assessment of Subjective Sleep Problems in Men with Opioid Dependence Maintained on Buprenorphine. *J Addict Med*. 2020;14(2):132-138. doi:10.1097/ADM.0000000000000539.

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- Ambekar A, Mishra AK, Parmar A, Kumar R, Kumar M, Rao R, Agrawal A. Are non-injecting opioid users at risk of transition to injecting drug use? A multi-site study from India. *Asian J Psychiatry.* 2019; 42:79-84.
- Singh G, Kaloiya GS, Dhawan A, Balhara YPS, Mishra AK. Need for evaluation of underlying dysfunctional cognition in problem drinkers. *Asian J Psychiatry.* 2018; 31:71-72.
- Snehil Gupta, Rakesh Lal, Ravindra Rao, Ashwani Kumar Mishra & Atul Ambekar (2017) Pattern of alcohol use among problem alcohol users in a community-based setting in India: A cross-sectional study, *Journal of Substance Use*, 23:2, 130-135.
- Quraishi R, Jain R, Mishra AK, Ambekar A. Association of ankyrin repeats & kinase domain containing 1 (ANKK1) gene polymorphism with co-morbid alcohol & nicotine dependence: A pilot study from a tertiary care treatment center in north India. *Indian J Med Res.* 2017;145(1):33-38.
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- Balhara YP, Mishra AK, Sethi H, Singh S, Khandelwal SK. Time trends of cannabis use among treatment-seeking individuals at government de-addiction centers across India over a period of 7 years. *Indian J Psychol Med* 2016; 38:331-5.
- Rao R, Ambekar A, Agrawal A, Pawar AKS, Mishra AK, Khandelwal SK. Evaluation of a five-day training programme on Opioid Substitution Therapy in India. *Drugs Educ Prev Pol*, 2016; 23(6): 471-475.
- Rao, R., Mandal, P., Gupta, R., Ram Shankar, P., Mishra, A., Ambekar, A., Jhanjee, S., Dhawan, A. Factors affecting drug use during incarceration: a cross-sectional study of opioid-dependent persons from India. *J Subst Abuse Treat.* 2016; 61:13-7.
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- Varshney M, Rao R, Mishra AK, Ambekar A. Brief Interventions for harmful alcohol use in opioid-dependent patients on maintenance treatment with buprenorphine: A prospective study from India. *Addictive Disorders & Their Treatments* 2015. DOI: 10.1097/ADT.0000000000000076.
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- Ambekar A, Agrawal A, Rao R, Goyal S, Mishra AK, Mukherjee D, Kishore K, Albertin C. Pattern of drug use and associated behaviors among female injecting drug users from northeast India: a multi-centric, cross-sectional, comparative study. *Substance Use & Misuse.* 2015; 50:1332-1340.
- Ambekar A, Rao R, Mishra AK, Agrawal A. Type of opioids injected: does it matter? A multicentric cross-sectional study of people who inject drugs. *Drug Alcohol Rev.* 2015;34(1):97-104.
- Balhara YPS, Mishra A, Sethi H, Ray R. A retrospective chart review of treatment-seeking middle-aged individuals at a tertiary care substance use disorder treatment center in the northern part of India over five successive years- findings from Drug Abuse Monitoring System (DAMS). *The Scientific World Journal* 2013: 316372.

Applied Statistics-Public Mental Health

- Madasu S, Malhotra S, Kant S, Sagar R, Mishra AK, Misra P, et al. Anxiety disorders among adolescents in a rural area of northern India using the Screen for Child Anxiety-Related Emotional Disorders tool: A community-based study. *Indian J Community Med* 2019; 44:317-21.
- Swapna Madasu, Sumit Malhotra, Shashi Kanta, Rajesh Sagar, Ashwani K Mishra, Puneet Misra, Farhad Ahamed. Prevalence and determinants of anxiety disorders among adolescents in a rural community from northern India. *Asian J Psychiatry.* 2019; 43:137-142.
- Sood M, Chadda RK, Mishra AK, Kumari K, Kukreti R. Attitude toward Antipsychotics and its Correlation with Psychopathology and Insight in Patients with Schizophrenia. *Indian J Soc Psychiatry.* 2018; 34:200-2.
- Khandelwal SK, Bhatia A, Mishra AK. Psychological Adaptation of Indian Expeditioners during Prolonged Residence in Antarctica. *Indian J Psychiatry.* 2017 Jul-Sep;59(3):313-319. doi: 10.4103/psychiatry.IndianJPsychiatry_296_16.
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- M Sood, RK Chadda, K Sinha Deb, R Bhad, A Mahapatra, R Verma, AK Mishra. Scope of Mobile Phones in Mental Health Care in Low-Resource Settings. *Journal MTM* 6:3:43-47, 2017 doi:10.7309/jmtm.6.3.7.
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- Behera P, Sharan P, Mishra AK, Nongkynrih B, Kant S, Gupta SK. Prevalence and determinants of depression among elderly persons in a rural community from North India. *Natl Med J India* 2016; 29:129-35.
- Kathiresan P, Sharan, Nongkynrih B, Mishra AK. Registration and definitions of mental disorders in Swedish survivors of the 2004 Southeast Asia tsunami. *The Lancet Psychiatry.* 2015; 2:962.
- Patil V, Pattana yak R, Mishra A. Predictors of suicide attempt in early-onset cases: Methodological issues and concerns. *J Clin Psychiatry.* 2013;74(12):1264.

Applied Statistics-Clinical Sciences

- Deval, R., Saxena, P., Pradhan, D. et al. A Machine Learning-Based Intrauterine Growth Restriction (IUGR) Prediction Model for Newborns. *Indian J Pediatr* (2022). <https://doi.org/10.1007/s12098-022-04273-2>.

- Singla V, Bhattacharjee HK, Gupta E, Singh D, Mishra AK, Kumar D. Performance of three-dimensional and ultra-high-definition (4K) technology in laparoscopic surgery: A systematic review and meta-analysis. *J Minim Access Surg.* 2022;18(2):167-175. doi: 10.4103/jmas.jmas_122_21.
- Hemanga K. Bhattacharjee, Harshit Agarwal, Vitish Singla, Shafneed Chaliyadan, Ashwani K. Mishra, Suhani Suhani, Mohit Joshi, and Rajinder Parshad. Learning Pattern of Two-Dimensional, Three-Dimensional, and Ultra- High-Definition Endo vision System on Standardized Phantom Tasks: An Ex Vivo Randomized Study *Journal of Laparoendoscopic & Advanced Surgical Techniques.* Ahead of print <http://doi.org/10.1089/lap.2021.0530>.
- Chaudhary T, Kanodia A, Verma H, Singh CA, Mishra AK, Sikka K. A Pilot Study Comparing Teletherapy with the Conventional Face-to-Face Therapy for Speech-Language Disorders. *Indian J Otolaryngology Head Neck Surg.* 2021 May 28;1-5. Doi: 10.1007/s12070-021-02647-0.
- Sengupta D, Bindra A, Kumar N, Goyal K, Singh PK, Chaturvedi A, Malhotra R, Mishra AK. Respiratory morbidity and mortality of traumatic cervical spinal cord injury at a level I trauma center in India. *Spinal Cord Ser Cases.* 2021 May 13;7(1):36. doi: 10.1038/s41394-020-00371-5. PMID: 33986249; PMCID: PMC8117130.
- Bhattacharjee, H.K., Chaliyadan, S., Mishra, A.K. et al. Comparison of two- dimensional high-definition, ultra-high-definition, and three-dimensional Endo vision systems: an ex vivo randomized study. *Surg Endoscopy* (2020). <https://doi.org/10.1007/s00464-020-07980-z>.
- Verma V, Mishra AK, Narang R. Application of Bayesian analysis in medical diagnosis. *J Pract Cardiovasc Sci.*2019; 5:136-41.
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- Ramesh V, Kaushal H, Mishra AK, Singh R, Salotra P. Clinico-epidemiological analysis of Post kala-azar dermal leishmaniasis (PKDL) cases in India over the last two decades: a hospital-based retrospective study. *BMC Public Health.* 2015;15(1):1092.
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- Soni S, Rath G, Deval R, Salhan S, Mishra A Kumar, Saxena S. Prognostic significance of Soluble Fas and soluble Fas ligand in serum of patients with complete hydatidiform moles. *Am J Reprod Immunol* 2011; 66: 230–236.
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- Tomar R, Mishra AK, Mohanty NK, Jain AK. Altered Expression of Succinic Dehydrogenase in Asthenozoospermia in Infertile Males. *American Journal of Reproductive Immunology.* 2012; 68:486-490.
- Fochsen G, Deshpande K, Diwan V, Mishra A, Diwan VK, Thorson A. Health Care seeking among individuals with cough and Tuberculosis: a population- based study from rural India. *The International Journal of Tuberculosis and Lung Disease.* 2006;10(9):995-1000.

Applied Statistics- Scientometrics

- Dhua AK, Garg M, Mishra AK, Goel P, Jain V, Yadav DK. A bibliometric study of the pediatric inguinal hernia publication landscape from the Web of Science database. *J Indian Assoc Pediatr Surg* 2022; 27:689-98.
- Dhua AK, Kumar V, Mishra AK, Jain V, Yadav D, Bajpai M, et al. Fifty most influential articles on anorectal malformations: A tribute through bibliometric ranking. *J Indian Assoc Pediatr Surg* 2022; 27:419-27.
- Mohit Varshney, Arpit Parmar & Ashwani Kumar Mishra (2020) The Past, Present and Future of Literature Pertaining to Betel (Areca) Nut: A Citation Analysis, *Substance Use & Misuse*, 55:9, 1403-1412, DOI: 10.1080/10826084.2019.1660677.
- Parmar A, Ganesh R, Mishra AK. The top 100 cited articles on Obsessive Compulsive Disorder (OCD): A Citation Analysis. *Asian J Psychiatry.* 2019; 42:34-41.
- Parmar A, Kumar Dubey D, Singh Balhara YP, Kumar Mishra A. Do Addiction Science Journals Endorse Unbiased Reporting of Research? A Systematic Evaluation of Instructions for Authors. *Subst Use Misuse.* 2019;54(10):1734- 1742.
- Balhara YPS, Mishra AK. Compliance of Retraction notices for retracted articles on mental disorders with COPE guidelines on retraction. *Current Science.* 2014;107(5):757-760.
- Balhara YPS, Mishra AK. A study exploring the attributes and nature of the retracted literature on mental disorders. *Indian J Med Ethics.* 2014;11(4):1-12.
- Mishra AK, Balhara YPS. Statistical Methodology for the Scientometrics Study of the Growth of Medical Sciences in India. *Current Science* 2013;105(6):821- 826.

Applied Statistics-Cancer Epidemiology & Population Genetics

- Saxena S, Chakraborty A, Kaushal M, Mohil RS, Mishra AK, Singh LC, Sharma J, Bansal A, Agrawal U, Mehta J, Asthana S, Katak AC, Kapur S, Chintamani, Dinesh Bhatnagar. Breast Cancer in Indian Women: Genetic Risk Factors and Predictive Biomarkers. *Ann Natl Acad Med Sci (India)* 2019; 55:34–47.
- Malhotra P, Goel H, Mishra AK. Inflammatory lymphadenopathy in renal cell carcinoma: prognostic tool? *Ann Transl Med* 2019;7(9):189.
- Kumar N, Agrawal U, Mishra AK, Kumar A, Vasudeva P, Mohanty NK, Saxena S. Predictive role of serum and urinary cytokines in invasion and recurrence of bladder cancer. *Tumor Biology.* 2017;1-14.
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- Chakraborty A, Mishra AK, Saxena S. Polymorphism of Hormone Synthesis and Metabolizing Genes and Breast Cancer Risk: A Multigenic Case-control Study. *Biomed Res J.* 2016;3(1):73–87.
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- Ihsan R, Chauhan PS, Mishra AK, Singh LC, Sharma JD, Zomawia E, Verma Y, Kapur S, Saxena S. Copy number polymorphism of glutathione-S-transferase genes (GSTM1 & GSTT1) in susceptibility to lung cancer in a high-risk population from north-east India. *Indian J Med Res* 2014(139):720-729.
- Paliwal P, Arora D, Mishra AK. Epithelial-Mesenchymal Transition in Urothelial Carcinoma: Twist in the tale. *Indian Journal of Pathology and Microbiology.* 2012;55(4):25-31.
- Kaushal M, Mishra AK, Sharma JV, Katakai A, Kapur S, Saxena S. Genomic alteration analysis of breast cancer patients in correlation with betel quid chewing in Northeast India. *PLoS One.* 2012;7(8):e43789.
- Chauhan PS, Ihsan R, Mishra AK, Yadav DS, Yadav, Saluja S, Mittal V, Saxena S, Kapur S. High-order interactions of xenobiotic metabolizing genes and P53 codon 72 polymorphisms in acute leukemia. *Environ Mol Mutagen.* 2012;53(8):619-30.
- Soni A, Bansal A, Mishra AK, Batra J, Singh LC, Chakraborty A, Yadav DS, Mohanty NK, Saxena S. Association of androgen receptor, prostate-specific antigen, and CYP19 gene polymorphisms with prostate carcinoma and benign prostatic hyperplasia in a north Indian population. *Genetic Test Mol Biomarkers.* 2012;16(8):835-40.
- Ihsan R, Devi TR, Yadav DS, Mishra AK, Sharma J, Zomawia E, Verma Y, Phukan R, Mahanta J, Katakai AC, Kapur S, Saxena S. Investigation on the role of p53 codon 72 polymorphism and interactions with tobacco, betel quid, and alcohol in susceptibility to cancers in a high-risk population from North East India. *DNA Cell Biol.* 2011; 30(3):163-71.
- Ihsan R, Chauhan PS, Mishra AK, Yadav DS, Kaushal M, Sharma JD, Zomawia E, Verma Y, Kapur S, Saxena S. Multiple analytical approaches reveal distinct gene-environment interactions in smokers and non-smokers in lung cancer. *PLoS One.* 2011; 6(12): e29431.
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Book Chapters

- Ashwani Kumar Mishra. Demography, Surveillance, and Interpretation of Data. *Comprehensive Textbook of Community Health Nursing Including Environmental Science, First Edition.*
- Ashwani Kumar Mishra, Yatan Pal Singh Balhara. A Systematic Analysis of Output in Medical Sciences for BRICS Countries. 2015. Proceedings of the 33rd Annual Conference for Indian Society for Medical Statistics (ISMS), 60-64
- AK Mishra, Anurupa Chakraborty, Sunita Saxena. Significance of Vitamin D Receptor Polymorphisms in Breast Cancer: Multinomial Logistic Regression Analysis. *Vitamin D: Nutrition, Side Effects and Supplements (2010).* Chapter 14.
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Technical Reports, Manual, Reports

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- Ambekar A, Agrawal A, Rao R, Mishra AK, Khandelwal SK, Chadda RK. Experience with Treatment among patients with substance use disorders. Focussed Thematic Study- National Survey on Extent and Pattern of Substance Use in India (2019). New Delhi: Ministry of Social Justice and Empowerment, Government of India.
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- Ambekar A, Agrawal A, Rao R, Mishra AK, Khandelwal SK, Chadda RK. Rates and patterns of substance use among people in prisons in India. Focussed Thematic Study- National Survey on Extent and Pattern of Substance Use in India (2019). New Delhi: Ministry of Social Justice and Empowerment, Government of India.
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- Ambekar A, Mishra AK, Agrawal A, Rao R. Do drug policies impede the availability of treatment of opioid dependence in India (and more so for non-injecting opioid users)? Analysis of epidemiological data from Punjab, India. 12th International Society for the Study of Drug Policy, Vancouver, Canada, 23-25 May 2017.

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❖ PRESENTATIONS AT SCIENTIFIC MEETINGS / CONFERENCES / WORKSHOPS

Organization of symposium/workshops/conference

- Organized an online interactive workshop on the basics of Research Methodology in Addiction Sciences in the first conference of the Association for Addiction Psychiatry at the ADDICON-2021
- Organized an online workshop on Operationalization and implementation of Nationwide Online Training Workshop on Statistical Analysis in Mental Health: Opportunities and Challenges, in World Association of Social Psychiatry Hybrid Congress, 18th September 2021
- Organized a nine-day ONLINE workshop on Analytical Techniques for Statistical Analysis in Mental Health, sponsored by the Department of Science and Technology (DST), Scientific and Engineering Research Board (SERB), under the Accelerate Vigyan Scheme, Government of India
- Organized 25 hours online workshop for the Ph.D. Scholars on the course work Research Methodology (Research Methodology and Research Ethics, Planning and Conduct of Literature Review, Techniques of Data Collection, Research Designs, Introduction-Test of Significance, Fundamentals of Public Health Research, Quantitative Aspects of Data Analysis, Sample Size Estimation, Time to Event Analysis, Computational Aspects of Research Methods, Elements of Scientific Communication), HNB Uttarakhand Medical Education University, Dehradun.
- Organized 25 hours online workshop on Research Methodology for Faculty/Ph.D. Scholars/Residents on Research Methodology (Nuts and Bolts of Database, What we do in Statistics, Elements of Descriptive Statistics, Sampling Distribution, Test of Significance, Test of Significance-Quantitative Variables, Test of Significance-Categorical Variables, Epidemiology and Study Design, Non-Parametric Test, Psychometry-Norms, Psychometry-Reliability, Psychometric-Validity, Measures of Disease Frequency, Diagnostics Test-Part 1, Diagnostics Test-Part 2, Basics of Grounded Theory-Part 1, Basics of Grounded Theory-Part 2, Correlation and Regression-Introduction, Coefficient of Determination and Standard Error of Estimate, Binary Logistic Regression Analysis)
- Organized Symposium on Biostatistical Aspects of Research in Addiction Medicine in the 21st Annual Meeting of the International Society for Addiction Medicine, New Delhi, 2019
- Organized Symposium on Basics of Randomized Controlled Trial: Issues and Perspectives in the First Annual Conference of Addiction Psychiatry, AIIMS, New Delhi, 28-30 November 2017
- Organized Workshop in First Annual Conference on Addiction Psychology, NDDTC, AIIMS, 8th September 2017, on the topic "What are the needs for Psychology Students."
- Organized Workshop in the Department of Psychiatry and NDDTC on Research Methodology on topics: Research Methodology: An Introduction, Research Designs: An overview, Systematic Review and Meta-Analysis, Basics of Statistics and Biostatistics, Elements of Scientific Publications, Elements of Scientific Presentation, Bibliographic Management, and Data Analysis using Excel on 19th August and 26th August 2017
- Organized Workshop at Food and Safety Department, Government of NCT of Delhi, 6-7th June 2017, and delivered lectures and practical hands-on on six topics: Elements of Descriptive Statistics, Techniques of Data Screening, Data considerations and analysis on SPSS on test of significance for the quantitative variables, Regression Analysis, Analyzing repeated measurement in health sciences, and Factor Analysis
- Organized Workshop on Biostatistics in Research Methodology, at the Department of Pediatrics, Gandhi Medical College, Bhopal, from 22-23 February 2014 and delivered six talks on-Overview of Statistics and Biostatistics, Elements of Scientific Publications, Critical Appraisal of Scientific Papers, Hands-on usage of MS Excel, Hands-on usage of Epi-Info

Invited talks in conference, Symposium, Workshops

- **2022:** Guest Speaker on the topic "Ethics in Medical Research", for Faculty, Research Scholars, and Paramedical Staff at Banasthali University.
- **2022:** Guest Speaker on the topic "Research Landscape of Psychiatric Epidemiology, Webinar Series, under the aegis of Indian Psychiatry Society (IPS), North Zone.
- **2022:** Guest Speaker on the topic "Paradigm Shift in Statistical Methodologies in Mental Health", in Webinar Series, under the aegis of Indian Psychiatry Society (IPS), North Zone.
- **2022:** Resource person in the Faculty Development Program at Indian Institute of Information Technology, Tiruchirappalli, 8th March 2022.
- **2021:** Delivered a lecture on Linear and Logistic Regression Analysis as a resource person for the Workshop on Bio-statistical Data Analysis, organized by the Department of Statistics, Assam University, Silchar, 22 November 2022.
- **2021:** Delivered a lecture on Sampling Techniques as the Resource Person in the Workshop –Cum – Hands-on Training on Biostatistics and Health Data Analysis for Healthcare Professionals, Department of Clinical Research, School of Allied Sciences, Sharda University, 24 September 2021.

- **2021:** Delivered a lecture on Test of Significance as the Resource Person in the Workshop –Cum – Hands on Training on Biostatistics and Health Data Analysis for Healthcare Professionals, Department of Clinical Research, School of Allied Sciences, Sharda University, 24 September 2021.
- **2021:** Attended the Side Event organized by the United Nations Statistical Commission (UNSC) in collaboration with the International Association for Official Statistics (IAOS).
- **2021:** Attended International Association for Survey Statisticians (IASS) Webinar on Positioning Household Surveys for Next Decade, organized by the International Statistical Institute, November 23, 2021.
- **2021:** Attended Frontiers Forum Speaker Series on Good Economics for Harder Times by Prof Esther Duflo, 28 April 2021.
- **2021:** Attended Frontiers Forum Speaker Series on Genomics-led solutions for all life on Earth by Prof Harris Lewin, 25 March 2021.
- **2021:** Attended Frontiers Forum Speaker Series on Equipping our Children to manage a Planet by Prof David Christian, 2 March 2021.
- **2019:** Presented an invited talk on “Biostatistical Approaches in Molecular Epidemiology” at the workshop on Molecular Techniques of Integrative Biology, sponsored by the Department of Health Research (DHR), Government of India, and organized by the National Institute for Research in Environmental Health (NIREH), Indian Council of Medical Research (ICMR), Bhopal, India.
- **2019:** Attended 37th Annual Conference of the Indian Society for Medical Statistics (ISMS) and presented a paper on “A Behavioural Economics Approach for understanding the Phenomena of Delay Discounting Rates among Alcohol and Opioid Dependence Syndrome, at AIIMS, Patna.
- **2019:** Attended 21st Annual Conference for the International Society for Addiction Medicine (ISAM) and presented a seminar on Evidence-informed Alcohol and Drug Policy reforms in India: Implications of the epidemiological data; Methodological Approaches for epidemiology of substance use: Advances and innovations, New Delhi.
- **2019:** Attended Scientific Meeting on Presentation of Findings for Recommendation and Policy Implications under National Survey on Extent and Pattern of Substance use in India, 2019 at Ministry of Social Justice and Empowerment, Government of India, April 16th, 2019.
- **2019:** Attended Scientific Meeting on Presentation of Findings for National Survey on Extent and Pattern of Substance use in India, 2019 at Ministry of Social Justice and Empowerment, Government of India, April 16th, 2019.
- **2019:** Attended Scientific Meeting on Presentation of Findings for National Survey on Extent and Pattern of Substance use in India, 2019 at Ministry of Social Justice and Empowerment, Government of India, April 9th, 2019.
- **2019:** Presented Scientific Talk on Sampling Designs and Statistical Analysis for data on National Survey on Extent and Pattern of Substance Use in India, in the 7th National Federation of Indian NGOs for Drug Abuse Prevention FINGODAP Conference, March 29th, 2019.
- **2019:** Attended Scientific Meeting on Presentation of Findings, Recommendations and Policy Implications for National Survey on Extent and Pattern of Substance use in India, 2019 at Ministry of Home Affairs, Government of India, March 12th, 2019.
- **2019:** Presented a scientific talk on Analytical Methods in Clinical Studies in the National Symposium on Biostatistical techniques and its application in clinical studies, Department of Statistics, Panjab University, March 11th, 2019.
- **2019:** Attended Scientific Meeting on Presentation of Findings and Recommendations for National Survey on Extent and Pattern of Substance use in India, 2019 at Ministry of Social Justice and Family Empowerment, Government of India, February 18th, 2019.
- **2019:** Attended Scientific Meeting on Presentation of Findings for National Survey on Extent and Pattern of Substance use in India, 2019 at Ministry of Social Justice and Family Empowerment, Government of India, February 4th, 2019.
- **2018:** Presented Scientific Talk on Elements of Inferential Statistics, during the 8th Refresher Course in Medical Sciences being organized at the University Grant Commission (UGC)-Human Resource Development Centre, BHU, Varanasi, June 2nd, 2018.
- **2018:** Presented Scientific Talk on Elements of Descriptive Statistics, during the 8th Refresher Course in Medical Sciences being organized at the University Grant Commission (UGC)-Human Resource Development Centre, BHU, Varanasi, June 2nd, 2018.
- **2018:** Presented Scientific Talk on Epidemiology of Substance Use in India-A Compilation from Multiple Sources, at 20th Annual Conference of the International Society for Addiction Medicine, November 3rd, 2018, at Busan, South Korea.
- **2018:** Presented Scientific Talk on Concepts of Drug Abuse Survey-Household, in the training programme on Planning and Designing of large-scale sample surveys for officers of States/UTs, at the National Statistical Systems Training Academy (NSSTA), September 25th, 2018.
- **2018:** Presented Scientific Talk on Concepts of Drug Abuse Survey-Respondent Driven Sampling, in the training programme on Planning and Designing of large-scale sample surveys for officers of States/UTs, at the National Statistical Systems Training Academy (NSSTA), September 25th, 2018.
- **2017:** Presented Scientific Talk on National Level Sampling Methodology, for the commissioned study on National Survey on Extent and Pattern of Substance use in India, by Ministry of Social Justice and Family Empowerment (MoSJE), Government of India, Regional Training of Trainers, Imphal, Delhi, November 3rd, 2017.
- **2017:** Presented Scientific Talk on Sampling Methodology-Northeast Regions, for the commissioned study on National Survey on Extent and Pattern of Substance use in India, by Ministry of Social Justice and Family Empowerment (MoSJE), Government of India, Regional Training of Trainers, Imphal, October 24th, 2017.
- **2017:** Presented Scientific Talk on Sampling Methodology-Central Regions, for the commissioned study on National Survey on Extent and Pattern of Substance use in India, by Ministry of Social Justice and Family Empowerment (MoSJE), Government of India, Regional Training of Trainers, Ranchi, October 10th, 2017.
- **2017:** Presented Scientific Talk on Sampling Methodology-Western Regions, for the commissioned study on National Survey on Extent and Pattern of Substance use in India, by Ministry of Social Justice and Family Empowerment (MoSJE), Government of India, Regional Training of Trainers, Bengaluru, October 9th, 2017.
- **2017:** Presented Scientific Talk on Sampling Methodology-Northern Regions, for the commissioned study on National Survey on Extent and Pattern of Substance use in India, by Ministry of Social Justice and Family Empowerment (MoSJE), Government of India, Regional Training of Trainers, New Delhi, on October 3rd, 2017.

- **2017:** Presented Scientific Talk on Household Mapping and Listing, under the commissioned study on National Survey on the Extent of Pattern of Substance use in India, by Ministry of Social Justice and Family Empowerment (MoSJE), Government of India, in the national Training of Trainers, New Delhi, on September 18th, 2017.
- **2017:** Presented Scientific Talk on District Selection and State Stratification plan under the commissioned study on National Survey on Extent and Pattern of Substance use in India, by Ministry of Social Justice and Family Empowerment (MoSJE), Government of India, in the National Consultation workshop, Vigyan Bhawan, New Delhi, on May 5th, 2017.
- **2017:** Member for the panel discussion in the software development for the empaneled agencies for the software development under the National Survey on Extent and Pattern of substance use in India, at the Ministry of Social Justice and Empowerment (MoSJE), Government of India, 9th June 2017.
- **2017:** Lecture on Analytical Methods in Biostatistics in the 3rd Workshop on Biomedical Data Analysis using R at the National Institute of Pathology, ICMR, New Delhi, 24th January 2017, Food and Safety Department, Government of NCT of Delhi, 5th June 2017.
- **2017:** Presentation on the State Stratification and District Selection by probability proportional to size (PPS), in the National Consultation Workshop of National Survey on Extent and Pattern of Substance Use in India, at Vigyan Bhawan, New Delhi, 9th May 2017.
- **2017:** Lecture on Analytical Methods in Biostatistics in the 3rd Workshop on Biomedical Data Analysis using R at the National Institute of Pathology, ICMR, New Delhi, 24th January 2017.
- **2017:** Lecture on Implementation of Respondent Driven Sampling in Mapping and Size Estimation of Street Children whose Drugs, at the Dissemination Meeting of Department of Women and Child Development, Government of Delhi, Delhi, 11 January 2017.
- **2016:** Invited Talk on "Dimension Reduction Techniques: An Overview", at 25th International Conference on Mathematics, Statistics and Computational Techniques, Forum for Interdisciplinary Mathematics (FIM), at Manipal University, Jaipur, Rajasthan, 22-24 December 2016.
- **2016:** Poster presentation on "Application of Geographical Information System for Understanding Epidemiology of Substance Use in India", at the Joint Conference: ISAM and CSAM-SMCA XXVII, Annual Meeting and Scientific Conference, October 20-22, 2016, Montreal, Canada.
- **2016:** Presented oral paper on "A Descriptive Analysis of instructions to authors for statistical reporting of articles in addiction medicine journals", at 68th Annual Conference on Indian Psychiatry Society, 21-24 January 2016.
- **2016:** Presented oral talk in Symposium on "Cannabis in Modern Times- Challenges and Opportunities", at 68th Annual Conference on Indian Psychiatry Society, 21-24 January 2016.
- **2016:** Presented oral talk in Symposium on "Punjab Opioid Dependence Survey (PODS): What have we learnt from it?", 68th Annual Conference on Indian Psychiatry Society, 21-24 January 2016.
- **2015:** Presented research paper entitled "A Systematic Analysis of Outputs in Medical Sciences for BRICS Countries at the 3rd Annual Conference of the Indian Society for Medical Statistics (ISMS), 14-16 October 2015, Belgavi, Karnataka.
- **2015:** Delivered a lecture on "Analytical Methods in Biostatistics" at the National Institute of Pathology, ICMR, in the National Workshop on Bioinformatics Tools for Biomedical Research, 24th March 2015, supported by the Indian Council of Medical Research, Ministry of Health and Family Welfare, Govt. of India, New Delhi.
- **2015:** Delivered a lecture on "Biostatistics and Use of Software" at the National Institute of Pathology, Indian Council of Medical Research (ICMR), in the foundation workshop in Clinical and Laboratory Medicine Research for member countries of the South Asian Forum for Health Research (SAFHeR), Feb 2015.
- **2014:** Attended two days' workshop on Evidence-Based Clinical Practice- 2014, from December 13th to 14th, December 2014.
- **2014:** Attended AIIMS-University of Michigan Research Methodology Course from 1st to 5th December 2014.
- **2014:** Attended and presented a research paper on "Descriptive Epidemiology of Cannabis" at the Annual Conference of the Indian Psychiatry Association, North Zone, Ludhiana, 20th-21st December 2014.
- **2014:** Attended and delivered a lecture on Analytical Methods in Statistics at the Annual Conference of the Indian Association for Social Psychiatry, Mysore, 21st-23rd November 2014.
- **2014:** Attended and deliver lecture on Sampling Methodology at the Annual Conference of the Indian Association for Social Psychiatry, Mysore, 21st-23rd November 2014.
- **2014:** Attended and presented a poster presentation entitled "Basics of Research Methodology-Schematic Sensitization", at Conference on Stress Reduction Skills: Scientific Update, organized by Department of Psychiatry and Sri Sri Global Meditating Doctors Association (GMDA) at Indian Institute of Technology (IIT), Delhi, August 30th-31st, 2014.
- **2014:** Attended and presented a research paper entitled "Challenges in Teaching of Medical Statistics in Developing Country", at the 9th International Conference on Teaching Statistics (ICOTS-9) at Flagstaff, Arizona, USA, 13th-18th July 2014.
- **2014:** Acted as the resource person for the workshop on Research Methods in Medical Sciences organized by the South Zone. **2012:** Delivered an Invited Talk on Biostatistics and Sampling Methods at the National Institute of Pathology (NIP), Indian Council of Medical Research (ICMR), for the workshop on Research Methodologies for Medical Scientists on October 10th, 2012.
- **2012:** Delivered an Invited Talk on Statistical Software at the National Institute of Pathology (NIP), Indian Council of Medical Research (ICMR), for the workshop on Research Methodologies for Medical Scientists on October 10th, 2012.
- **2012:** Served as a resource person for the National Seminar on Scientific Writing, organized by Bakson Homoeopathic Medical College and Hospital, Greater Noida, sponsored by Commission for Scientific and Technical Terminology, Ministry of Human Resource Development, Government of India, on March 2nd, 2012.
- **2011:** Served as faculty for the foundation workshop on Clinical and Laboratory Medicine Research, held at the National Institute of Pathology (NIP), Indian Council of Medical Research (ICMR) from July 26th-28th, 2011, and delivered talk on Statistical Software.
- **2010:** Served as faculty for the second foundation workshop on Clinical and Laboratory Medicine Research, held at University College of Medical Sciences (UCMS), New Delhi, from 17th to 19th August 2010, and delivered a talk on "Basic Biostatistics".

- **2010:** Served as faculty for the second foundation workshop on Clinical and laboratory Medicine Research, held at University College of Medical Sciences (UCMS), New Delhi, from 17th-19th August 2010, and delivered a talk on “Data Management and Sample Size Determination”.
- **2010:** Served as faculty for the First Foundation Workshop on Clinical and Laboratory Medicine Research for undergraduate medical students, held at the Institute of Pathology, Indian Council of Medical Research (ICMR), New Delhi, from 12th-13th March 2010, and delivered an invited talk on “Basic Biostatistics”. Indian Psychiatry Society, at Kochi, Kerala, on 9th March 2014, and delivered a talk on Sampling Methodology.
- **2014:** Acted as the resource person for the workshop on Research Methods in Medical Sciences organized by the South Zone of the Indian Psychiatry Society, at Kochi, Kerala, on 9th March 2014, and delivered a talk on Analytical Methods in Statistics.
- **2013:** Delivered an invited talk on the topic entitled "Synergistic Perspective of Clinicians and Biostatisticians in an omics era", in the Silver Jubilee Conference of Sanjay Gandhi Post Graduate Institute of Medical Sciences (SGPGIMS), Lucknow, from 14-15 December 2013.
- **2013:** Delivered an invited talk on the topic entitled "Setting up of Research Database", in the symposium "Research Associated Priority Innovation Programme" of the Indian Association of Social Psychiatry (IASP), at the 20th Annual Conference of the Indian Association for Social Psychiatry, held at Kolkata, 8th-9th, November 2013.
- **2013:** Delivered an invited talk on ‘Basics of Biostatistics and Data Management’, at the 65th Annual Conference of the Indian Psychiatry Society at NIMHANS, Bangalore, 10th-13th January 2013.
- **2012:** Delivered an Invited Talk on Descriptive and Inferential Statistics at Jamia Millia Islamia, Centre for Physiotherapy and Rehabilitation Sciences on November 2nd, 2012.
- **2012:** Delivered an Invited Talk on Presentation of Data at Jamia Millia Islamia at Centre for Physiotherapy and Rehabilitation Sciences on November 2nd 2012.
- **2012:** Delivered an Invited Talk on Biostatistics and Sampling Methods at the National Institute of Pathology (NIP), Indian Council of Medical Research (ICMR), for the workshop on Research Methodologies for Medical Scientists on October 10th, 2012.
- **2012:** Delivered an Invited Talk on Statistical Software at the National Institute of Pathology (NIP), Indian Council of Medical Research (ICMR), for the workshop on Research Methodologies for Medical Scientists on October 10th, 2012.
- **2012:** Served as a resource person for the National Seminar on Scientific Writing, organized by Bakson Homoeopathic Medical College and Hospital, Greater Noida, sponsored by Commission for Scientific and Technical Terminology, Ministry of Human Resource Development, Government of India, on March 2nd, 2012.
- **2011:** Served as faculty for the foundation workshop on Clinical and Laboratory Medicine Research, held at the National Institute of Pathology (NIP), Indian Council of Medical Research (ICMR) from July 26th-28th, 2011, and delivered a talk on Statistical Software.
- **2010:** Served as faculty for the second foundation workshop on Clinical and Laboratory Medicine Research, held at University College of Medical Sciences (UCMS), New Delhi, from 17th to 19th August 2010, and delivered a talk on “Basic Biostatistics”.
- **2010:** Served as faculty for the second foundation workshop on Clinical and laboratory Medicine Research, held at University College of Medical Sciences (UCMS), New Delhi, from 17th-19th August 2010, and delivered a talk on “Data Management and Sample Size Determination”.
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- **2010:** Served as faculty for the second foundation workshop on Clinical and laboratory Medicine Research, held at University College of Medical Sciences (UCMS), New Delhi, from 17th-19th August 2010, and delivered a talk on “Data Management and Sample Size Determination”.
- **2010:** Served as faculty for the First Foundation Workshop on Clinical and Laboratory Medicine Research for undergraduate medical students, held at the Institute of Pathology, Indian Council of Medical Research (ICMR), New Delhi, from 12th-13th March 2010, and delivered an invited talk on “Basic Biostatistics”.

Investigator in funded projects along with year and title (completed)

- Analytical Techniques for Statistical Analysis in Mental Health [2021]
- Internal Consistency and Divergent Validity of the Hindi Version of the Addiction Severity Index-Lite among Individuals with Alcohol and Opioid Dependence Syndrome [2019-2021]
- Development of Indian Anxiety and Mania Questionnaire [2019-2022]

Investigator in funded projects along with year and title (ongoing)

- Infrared signature of surgical wound: thermographic profiles and early-stage test-accuracy study to predict the surgical site infection in pediatric surgical patients [2022-]
- A study to examine psychosocial and behavioral domains among school-going adolescents during COVID 19 pandemic - Mixed study design [2022-]

Investigator in non-funded projects along with year and title (completed)

- Hindi Adaptation and Psychometric Validation of Stages of Change Readiness and Treatment Eagerness Scale (SOCRATES) among Participants with Alcohol Dependence [2020-2022]
- Comparison of Delay Discounting Rate among current users of Heroin and abstinent: An Observational Study [2019-2021]
- Delay Discounting Rates among Patients with Alcohol and Opioid Dependence: A Cross-Sectional Comparative Study [2017-2019]

Investigator in non-funded projects along with year and title (ongoing)

- Comparison of Different Methods for Estimation of Alcohol Consumption: A Cross-sectional Community-based Study [2022-]

Co-investigator in funded projects along with year and title (completed)

- Development and Validation of an Indian Instrument to Assess the Severity of Substance-Related Problems [2019-2022].
 - Screening and Intervention in School Students of Primary Classes for Substance Use in Delhi". Funding- Department of Education (DOE), Delhi Government [2019-2021].
 - Screening and Intervention in School Students of Secondary Classes for Substance Use in Delhi". Funding- Department of Education (DOE), Delhi Government [2019-2021].
 - National Survey on Extent and Pattern of Substance use in India [2016-2021].
 - Development of Indian Anxiety and Mania- Questionnaire [2018-2022].
 - Rates and Patterns of Psychoactive Substance use among Prison inmates in India [2018-2022].
 - Experience with Treatment among patients with substance use disorders [2018-2022].
 - Pattern of use of Psychoactive Substances (NPS) [2018-2021].
 - Substance use among Transport Workers [2018-2021].
 - Substance use among school and College students [2018-2021].
 - Behavioral and Biological Assessment of Vulnerabilities to acquisition of HIV, blood-borne viruses, and Tuberculosis among Prison Inmates of Gujarat [2018-2020].
 - Development of Cognitive retraining module for improving cognitive deficits of abstinent patients with Alcohol, Cannabis, and Opioid Dependence Syndrome in a Tertiary Care De-addiction Centre of Northern India [2017-2018].
 - Cognitive Behavioural-Based Intervention in a Group Setting for Tobacco Cessation in a Tertiary de-addiction center in Northern India [2015-2016].
 - Mapping and Size estimation of Street children who use drugs in Delhi [2015-2016].
 - Study on Size Estimation for Opioid Dependent Population in the State of Punjab [2014-2015].
 - Community Based Brief Intervention with simple advice for women tobacco users.
 - Epigenetic studies in esophageal cancer in the high-risk region of Northeast India [2011-2012].
 - Immunogenetic profile of NPC–Nasopharyngeal Cancer in a high prevalence region of Northeast India [2010-2012].
 - Longitudinal Demographic, Socioeconomic survey and analysis in 60 villages of Ujjain district [2003-2006].
 - A study on the availability of Health Facilities in the Ujjain district [2004-2005].
- Assessment of disease burden due to Taenia Solium in a rural Community [2002-2003].

Co- investigator in non-funded projects along with year and title completed

- A Study to explore the role of Gamma Synuclein as a Potential Biomarker in Breast Cancer [2020-2022].
- Functional outcome of patients undergoing thoracic surgery for benign Pulmonary and pleural diseases: ambispective cohort study [2020-2022].
- Exploratory study of problematic internet pornography use [2020-2022].
- Impact of Screen Time on Mental, Behavioural and Social aspects among School-going Adolescents [2020-2022].
- Comparison of Double "J" and infant feeding tubes as stents in open Cohen's ureteric reimplantation in terms of hospital stay -a Randomized study [2019-2022].
- Circulating Micro RNA in Coronary Artery Disease [2019-2022].
- Assessment of reasons, status of, and factors associated with drop-out in patients on Opioid Substitution Therapy: A cross-sectional, comparative, community-based study [2019-2022].
- Endorsement and Concordance of ICD 11, ICD 10, and DSM 5 Diagnostic Guidelines for Alcohol and Opioid Use Disorders [2019-2021].
- Psychological Correlates of Caregiving among the caregivers of patients with Schizophrenia [2018-2022]. Trazodone for sleep disturbance in opioid dependent patients maintained on buprenorphine: a double-blind, placebo-controlled trial [2018-2021].
- Assessing client perceived barriers to initiate opioid substitution therapy among Injecting Drug Users: A cross-sectional, comparative, community-based study [2018-2021].
- Effectiveness of reminders using Phone call versus Short Message Service on treatment retention in patients with substance use disorders: An open-label randomized trial [2018-2020].
- Development of Cognitive Behavioural-based Intervention Module for Adolescents in Conflict with Law [2017-2022].
- A Pilot Follow-up Study on Retention and Outcome of Patients with Opioid Dependence after Discharge from Treatment Centre [2017-2019].
- Cognitive Functioning in Buprenorphine maintained Opioid Dependent Patients at Peak and Trough Blood Buprenorphine Levels: An Experimental Study [2017-2019].
- Study of Aspirin and Clopidogrel Resistance by Platelet Aggregation and its Association with Adverse Outcomes in Indian Stable Coronary Artery Disease Patients [2017-2019].
- Intravenous Naloxone on Opioid Agonist Effects of Intravenous Buprenorphine: A Double-blind, Within-subject, Randomized, Cross-over Study among Opioid Dependent Subjects [2017-2019].
- Depression, anxiety, quality of sleep, and mental adjustment style among adult myeloma patients in active treatment and maintenance phase [2017-2019].

- Family Interventions Addressing Expressed Emotions in Treatment Seeking Men with Opioid Dependence [2016-2021].
- Association between C Reactive Protein Level and Alcohol Consumption Among Patients of Alcohol Use Disorder: A Cross-Sectional Exploratory Study [2016-2019].
- A Cross-Sectional Observational Study to Assess Help seeking behaviour for Alcohol Use Disorders among Patients with Alcoholic Liver Diseases [2016-2019].
- Knowledge, Risk Factors and Experience of Non-Fatal Overdose Among Injecting Drug Users: A Community- based, Cross-sectional Study [2016-2019].
- To investigate the effect of polymorphisms and epigenetic modification on the expression of monoamine pathway genes in alcohol dependence [2015-2020].
- Cognitive Representation and efficacy of Cognitive Therapy in individuals with alcohol dependence syndrome [2015-2019].
- Oral Methadone versus Sublingual Buprenorphine for Treatment of Acute Opioid Withdrawal: A Randomized, Double-Blind, Double-Dummy, Controlled Study [2014-2016].
- Economic analysis of Opioid Substitution Therapy under National AIDS Control Programme – a cross-sectional comparative study [2014-2016].
- Anxiety Disorder amongst adolescents in rural Ballabgarh-A Community based study [2014-2016].
- Two-group randomized design for the effectiveness of NRT with simple advice and NRT with counselling for the reduction in the smoking parameters [2014-2016].
- Pattern of drinking and its relationship with consequences in subjects with harmful/hazardous alcohol use [2013-2015].
- Effectiveness of Screening and Brief Intervention for Moderate/High Risk Alcohol Use Among Patients on Buprenorphine Maintenance: A Clinical and Alcohol-Biomarker Study [2013-2015].
- Depression among Elderly Persons in the Rural Area of Ballabgarh. Collaborated on research work along with the Department of Psychiatry, the Department of Community Medicine, and the National Drug Dependence and Treatment Centre (NDDTC) [2012-2014].
- MD Thesis dissertation work on Assessment of the effect of sweet tastants on cue-related craving in recently detoxified alcohol dependent subjects [2012-2014].
- MD Thesis dissertation work on Cue Induced Craving in Heroin Dependent Men [2012-2014].
- DNB pathology thesis dissertation work: Role of epithelial-mesenchymal transition in progression of bladder cancer: An Immunohistochemical analysis [2009-2011].

Co- investigator in funded projects along with year and title (ongoing)

- Comparative mapping of common mental disorders (CMD) over lifespan [2022-].
- A study to examine psychosocial and behavioral domains among school-going adolescents during COVID 19 pandemic- Mixed study design [2022-].
- Development and evaluation of artificial intelligence- based methods and models for the prediction of self-harm and suicide attempts amongst the patients of opioid dependence and depression [2021-].
- Assessment of Rates and Causes of Mortality among People with Opioid dependence: A Longitudinal, Cohort Study [2021-]
- Role of specific single-nucleotide gene polymorphisms (SNPs) with treatment adherence and outcome with naltrexone among patients with opioid dependence: A naturalistic follow-up study [2020-].

Co- investigator in non-funded projects along with year and title (ongoing)

- Outcome of ASO in TGA intact ventricular septum with regressed LV in the age group 2-6 months using two-stage VS integrated ECMO-A prospective observational study [2022-].
- A pilot study to assess the items for the anxiety-related events among blood donors and establish their face and content validity at a tertiary care academic institute in North India [2022-]
- Quality of Life and Associated factors among recipients of Buprenorphine-Naloxone Maintenance Treatment [2021-].

Thesis supervised for MD/ PhD

As a guide (number only)- 04

As co-guide (number only) - 39

As a member of the doctoral committee - 08

Significant Event

- Member of the Panel for test development and paper setting for Paper Environmental Sciences, National Testing Agency (NTA), Department of Higher Education, Ministry of Education, Government of India [2022].
- Examiner for the course on Research Methodology for the Course Work of PhD Scholars, HNB Medical Education University, Dehradun, Uttarakhand [2020].
- External Examiner for the M.Phil. Course for the paper on the Research Methodology, IHBAS [2019].
- External Examiner for the M.Phil. Course for the paper on the Research Methodology, IHBAS [2018].
- External Examiner for the recruitment of Technical Assistant (Statistics), for the Model Rural Health Scheme, CHC, Muga, under the scheme of the Department of Health Research (DHR), Government of India [2017].
- External Examiner for the M.Phil. Course for the paper on the Research Methodology, IHBAS [2017].
- Examiner for the M.Phil. Course for the paper on the Research Methodology, IHBAS [2016].

Awards and Honours

Education

1999: First Class First for Post-Graduate Examination (GOLD MEDAL)

2001: Fellowship in Biostatistics from SGPGIMS, Lucknow

2003: Received Post Graduate Education Certificate for Advanced Course in Biostatistics and Epidemiology from the Nordic School of Public Health, Göteborg, and RD Gardi Medical College, Ujjain

2004: Faculty for the International Course on Health Intervention Studies, in collaboration with the Nordic School of Public Health

2005: Faculty for the International Course in Research Methodology in collaboration with Nordic School of Public Health and RD Gardi Medical College, Ujjain

2013: Awarded Certificate of Accomplishment with Distinction for the course Mathematical Biostatistics Boot Camp, offering of John Hopkin's University, USA

2020: Received certification of completion with 91.2% Marks for the successful completion of the course on Systematic Review and Meta-Analysis, from Johns Hopkins University, USA

2020: Letter of Commendation from Vice-Chancellor, HNB Uttarakhand Medical Education University for effective planning and management of the ONLINE course in Research Methodology as Course Coordinator

2020: Received DST Grant from Department of Science and Technology (DST) under the Accelerate Vigyan Scheme through Scientific and Engineering Research Board (SERB) for organizing 9 days online workshop on Analytical Techniques for Statistical Analysis in Mental Health

2021: Elected Member, Education Subcommittee for the International Society for Clinical Biostatistics (ISCB). This honour is quite prestigious in the sense that I happen to be not only the member from India, or Asia, but the only member from the Developing world. In total, there are 15 [14+1] members in this committee. The other 14 members belong to developed/high-income countries [1 Member each from Australia (AU), Canada (CA), France (FR), Romania (RO), 3 Members from New Zealand (NZ), 5 Members from the United Kingdom (UK), and 2 Members from the USA (US). This committee supports and organizes educational activities, such as short courses, webinars, and seminars on contemporary methods in Clinical Biostatistics.

2021: Completed a paid course with an examination on Data Science and Machine Learning: Making Data Driven Decision conducted by Massachusetts Institute of Technology (MIT) and MIT Institute for Data, Systems, and Society (MIT-IDSS).

2022: Nominated as a Board Member by the Department of Medical Education and Research (DMER) by the Government of Haryana, for Promotion of Research in Medical Universities.

Research Awards

2007: World Bank Travel grant for attending 5th International Statistical Institute Conference held at Lisboa, Portugal, for thesis research paper, Some Epidemiological Models for parasitic Infections: Comparison between traditional and hierarchical logistic regression methods

2014: World Bank Travel grant for attending the 9th International Conference on Teaching Statistics for the research paper Challenges in Teaching of Medical Statistics in Developing Country

2017: Award from AIIMS, Delhi, for the research paper Pattern of Drug Use and associated behaviors among Female Injecting Drug Users from Northeast India: A Multi-Centric, Cross-Sectional, Comparative Study. Substance Use & Misuse

Associate Editor

2022-till date: Statistical Editor, International Journal of Health Research and Medico-legal practice (IJHRMLP); Official publication of the Academy of Health Research and Medical Education (AHRME)

2020-till date: Associate Editor, Frontiers in Public Health for the Specialty Section Public Mental Health

2017-till date: Associate Editor, Tobacco and Regulatory Sciences

Reviewer

- National Medical Journal of India
- Indian Journal of Medical Research
- Indian Journal of Nephrology
- Indian Journal of Clinical Psychology
- Current Science
- Drug and Alcohol Review
- Substance Use and Misuse
- Health
- International Journal of Clinical Biostatistics and Biometrics
- American Journal of Alcohol and Drug Dependence
- British Medical Journal Open
- National Medical Journal of India
- Acta Astronautica

Membership of the Scientific Societies

- Elected Member-International Institute for Medical Statistics
- Elected Member-International Association for Statistical Education
- Member-International Association for Clinical Biostatistics

- Member-Indian Society for Medical Statistics