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Gender Male
Nationality Indian
Present designation Scientist F & Division Head, ICMR School of Public Health
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Education

Postgraduate Diploma in Bioethics (PGDBE), Dec 2014
Indira Gandhi National Open University, Delhi, India

PhD - Epidemiology, Sep 2011
Fielding School of Public Health, University of California Los Angeles (UCLA), California, USA

Doctor of Medicine (MD) - Preventive and Social Medicine, Jun 2003
Institute of Medical Sciences, Banaras Hindu University, Varanasi, UP, India

Bachelor of Medicine & Bachelor of Surgery (MBBS), Mar 1998
Gandhi Medical College, Barkatullah University, Bhopal, MP, India

Professional Experience

Sep 1, 2021 – till date Scientist F, ICMR-National Institute of Epidemiology, Chennai, India
Sep 1, 2016 – Aug 31, 2021 Scientist E, ICMR-National Institute of Epidemiology, Chennai, India
Sep 1, 2012 – Aug 31, 2016 Scientist D, ICMR-National Institute of Epidemiology, Chennai, India
July 10, 2008 – Aug 31, 2012 Scientist C, ICMR-National Institute of Epidemiology, Chennai, India
Nov 2007 – Jun 2008 Project Manager, Integrated Behavioral and Biological Assessment (IBBA) of HIV, ICMR-National Institute of Epidemiology, Chennai, India
Apr - Jun 2007 Lecturer (part-time), IDS 191 course (*HIV in the Developing World*), International Development Studies, Interdepartmental Programs, UCLA International Institute, Los Angeles, California, USA
Apr - Jun 2006 Special Reader, Epid 227 course (*AIDS-A Major Public Health Challenge*), Department of Epidemiology, UCLA School of Public Health, Los Angeles, USA
Sep 2006 – Mar 2007 Special Reader, Epid 200A and 200B course (*Epidemiology Methods I and II*), Department of Epidemiology, UCLA School of Public Health, Los Angeles, U
Jan – Jun 2006 Remedial Tutor, Department of Epidemiology, UCLA School of Public Health, Los Angeles, USA
Sep – Dec 2005 Remedial Tutor, Department of Epidemiology, UCLA School of Public Health, Los Angeles, USA
Oct 2003 – Aug 2004 Demonstrator, Department of Community Medicine, Government Medical College and Hospital, Chandigarh, India
2001-02 WHO-National Polio Surveillance Project Monitor, Varanasi, India
Jul 2000-Jun 2003 Junior Resident, Department of Community Medicine, Institute of Medical Sciences, Banaras Hindu University, Varanasi, UP, India
Aug – Oct 1999 Resident House Physician, Department of General Medicine, Mahatma Gandhi Memorial Hospital, Mumbai, India

Course faculty

Sep 2019 – till date PhD (Epidemiology) guide, University of Madras, Chennai, India
Apr 2018 – till date PhD (Epidemiology) guide, The Tamil Nadu Dr. MGR Medical University, Chennai, India
Aug 2019 – till date Basic Course in Biomedical Research, NIE-ICMR e-certificate online course, ICMR-National Institute of Epidemiology, Chennai, India
Sep 2016 – till date MSc (Biostatistics) (Periyar University), ICMR School of Public Health, ICMR-National Institute of Epidemiology, Chennai, India [*Epidemiology*]
Jan 2016 – till date Health Research Fundamentals, NIE-ICMR e-certificate online course, ICMR-National Institute of Epidemiology, Chennai, India

Jul 2008 - till date	Master of Public Health (MPH) (Sree Chitra Tirunal Institute of Medical Sciences and Technology, Thiruvananthapuram), ICMR School of Public Health, ICMR-National Institute of Epidemiology, Chennai, India [<i>Program coordinator since July 2013</i>]
Feb 2012 – Jun 2014	Postgraduate Diploma in HIV Epidemiology, ICMR School of Public Health, ICMR-National Institute of Epidemiology, Chennai, India [<i>Program Director</i>]
Jul 2008 – Jun 2012	Master of Applied Epidemiology (MAE), (Sree Chitra Tirunal Institute of Medical Sciences and Technology, Thiruvananthapuram), ICMR School of Public Health, ICMR-National Institute of Epidemiology, Chennai, India

Other academic roles

October 2020	Member of Doctoral Advisory Committee, Full-time PhD scholar, Achyutha Menon Centre for Health Science Studies, Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum, Kerala, India
August 2020	Member of Doctoral Advisory Committee, Full-time PhD scholar, University of Madras, Chennai, India
July 2019	External Examiner, Master of Public Health - July 2019, Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER), Puducherry, India
April 2019-till date	Member of Doctoral Advisory Committee, Part-time PhD scholar, Department of Preventive and Social Medicine, Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER), Puducherry, India
July 2018	External Examiner, Master of Public Health - July 2018, Jawaharlal Institute of Postgraduate Medical Education and Research (JIPMER), Puducherry, India
June 2012-2018	Member of Doctoral Advisory Committee for one full time PhD scholar (Topic: Study on estimation of risk factors and marker for buccal mucosa carcinoma), SRM Medical College Hospital and Research Centre, SRM University, Kattankulathur, Kancheepuram district, Tamil Nadu, India

Membership of professional committees/groups

1. Technical Resource Group on HIV Counseling and Testing Services, National AIDS Control Organization, New Delhi, India, March 2022 – till date
2. Board of Studies (Health Sciences), Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram, India, June 2021 – till date
3. ICMR National Task Force for COVID-19, Govt of India, March 2020 – till date
4. Epidemiology and Surveillance Working Group of National Task Force for COVID-19, ICMR, April 2020 – till date
5. Technical Working Group on Elimination of Mother to Child Transmission of HIV and Syphilis, National AIDS Control Organization, New Delhi, India, 2017-till date
6. India Clinical Epidemiology Network (IndiaCLEN), 2016-till date
7. Local Research Advisory Committee, Multidisciplinary Research Unit, Chengalpattu Medical College, Chengalpattu, Tamil Nadu, India, 2016-till date
8. National Core Group on Prevention of Parent to Child Transmission (PPTCT), National AIDS Control Organization, New Delhi, India, 2014-till date
9. Southeast Asia regional representative, Accreditation Working Group, Training Programs in Epidemiology and Public Health Interventions Network (TEPHINET), The Task Force for Global Health, USA, 2013-till date
10. Board of Studies, Department of Epidemiology and Public Health, School of Life Sciences, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu, India, 2016-2022
11. Ethics Review Committee of Solidarity and Action Against the HIV Infection in India (SAATHII), Chennai, India, 2014-15
12. Expert group to finalize approved projects of National Institute for Research in Environmental Health (ICMR), Bhopal, India, 2013
13. Expert group for Task Force on Rickettsial Diseases, Indian Council of Medical Research, New Delhi, India, 2013
14. GHTM – Research Committee, Govt. Hospital of Thoracic Medicine, Chennai, Tamil Nadu, India, 2012-2015
15. Technical Assistance Group, Tamil Nadu State AIDS Control Society, Tamil Nadu, India, 2012-13

16. Regional STI Centre National Mentoring Committee, National AIDS Control Organization, New Delhi, India, 2012-2017
17. Technical coordination committee for collaborative work with BMGF & its grantee institutes on HIV/AIDS epidemic analysis, National AIDS Control Organization, New Delhi, India, 2012
18. Working group on strategic information and surveillance to develop the national strategies for the National AIDS Control Program – Phase IV, National AIDS Control Organization, New Delhi, India, 2011
19. Technical expert group on mapping and size estimation of high risk groups for HIV, National AIDS Control Organization, New Delhi, India, 2009-10

Publications

Research Papers [76]

1. **Bhatnagar T**, Chaudhuri S, Ponnaiah M, Yadav PD, Sabarinathan R, Sahay RR, et al. Effectiveness of BBV152/Covaxin and AZD1222/Covishield vaccines against severe COVID-19 and B. 1.617. 2/Delta variant in India, 2021: a multi-centric hospital-based case-control study. *International Journal of Infectious Diseases*. 2022 Sep 1;122:693-702.
2. Ponnaiah M, Ganesan S, **Bhatnagar T**, Thulasigam M, Majella MG, Karupiah M, et al. Hyperglycemia and steroid use increase the risk of rhino-orbito-cerebral mucormycosis regardless of COVID-19 hospitalization: Case-control study, India. *PLoS ONE* 2022 Aug 8;17(8): e0272042. <https://doi.org/10.1371/journal.pone.0272042>
3. Gupta M, Parameswaran GG, Sra MS, Mohanta R, Patel D, Gupta A, Bansal B, Jain V, Mazumder A, Arora M, Aggarwal N, **Bhatnagar T**, Akhtar J, Pandey P, Ravi V, Babu GR. Contact tracing of COVID-19 in Karnataka, India: Superspreading and determinants of infectiousness and symptomatic infection. *PLoS ONE* 2022 Jul 11;17(7): e0270789. <https://doi.org/10.1371/journal.pone.0270789>
4. Ponnaiah M, **Bhatnagar T**, Ganeshkumar P, et al. Design and implementation challenges of massive open online course on research methods for Indian medical postgraduates and teachers –descriptive analysis of inaugural cycle. *BMC Med Educ* 2022 May;22:369. <https://doi.org/10.1186/s12909-022-03423-6>
5. Rajamanickam A, Pavan Kumar N, Nancy PA, Selvaraj N, Munisankar S, Renji RM, Vijayalakshmi V, Murhekar M, Thangaraj JWV, Kumar MS, Kumar CPG, **Bhatnagar T**, Ponnaiah M, Sabarinathan R, Saravanakumar V, Babu S. Dynamic Changes in Neutrophil Counts and Neutrophil Granular Protein Levels in Convalescent COVID-19 Patients. *Archives of Clinical and Biomedical Research* 6 (2022, April): 378-89.
6. Pavan Kumar N, Moideen K, Nancy A, Selvaraj N, Renji RM, Munisankar S, Thangaraj JW, Muthusamy SK, Kumar CG, **Bhatnagar T**, Ponnaiah M. Enhanced SARS-CoV-2-Specific CD4+ T Cell Activation and Multifunctionality in Late Convalescent COVID-19 Individuals. *Viruses*. 2022 Mar 2;14(3):511.
7. Rajamanickam A, Pavan Kumar N, Pandiaraj AN, Selvaraj N, Munisankar S, Renji RM, Venkataramani V, Murhekar M, Thangaraj JWV, Muthusamy SK, Chethrapilly Purushothaman GK, **Bhatnagar T**, Ponnaiah M, Ramasamy S, Velusamy S, Babu S. Characterization of memory T cell subsets and common γ -chain cytokines in convalescent COVID-19 individuals. *J Leukoc Biol*. 2022 Mar 8. doi: 10.1002/JLB.5COVA0721-392RR. Epub ahead of print. PMID: 35258122.
8. Barani S, **Bhatnagar T**, Natarajan M, Gayathri K, Sonekar HB, Sasidharan A, Selvavinayagam TS, Bagepally BS. Health-related quality of life among COVID-19 individuals: A cross-sectional study in Tamil Nadu, India. *Clinical Epidemiology and Global Health*. 2022 Jan 1;13:100943.
9. Zodpey SP, Negandhi H, Kamal VK, **Bhatnagar T**, Ganeshkumar P, Athavale A, Kadri A, Patel A, Bhagyalaxmi A, Khismatrao D, Theranirajan E. Determinants of severity among hospitalised COVID-19 patients: Hospital-based case-control study, India, 2020. *Plos one*. 2021 Dec 29;16(12):e0261529.
10. Jahan N, Brahma A, Kumar MS, Bagepally BS, Ponnaiah M, **Bhatnagar T**, Murhekar MV. Seroprevalence of IgG antibodies against SARS-CoV-2 in India, March 2020-August 2021: a systematic review and meta-analysis. *International Journal of Infectious Diseases*. 2021 Dec 28.
11. Murhekar, M.V., **Bhatnagar, T.**, Thangaraj, J.W.V., Saravanakumar, V., Santhosh Kumar, M., Selvaraju, S., Rade, K., Kumar, C.G., Sabarinathan, R., Asthana, S. and Balachandar, R., 2021. Seroprevalence of IgG antibodies against SARS-CoV-2 among the general population and healthcare workers in India, June–July 2021: A population-based cross-sectional study. *PLoS medicine*, 18(12), p.e1003877.
12. Ponnaiah M, Suliankatchi Abdulkader R, **Bhatnagar T**, Thangaraj JW, Santhosh Kumar M, Sabarinathan R, Velusamy S, Sabde Y, Singh H, Murhekar MV. COVID-19 testing, timeliness and positivity from ICMR's laboratory surveillance network in India: Profile of 176 million individuals tested and 188 million tests, March 2020 to January 2021. *PloS one*. 2021 Dec 3;16(12):e0260979.

13. Dzeyie KA, Dhanapaul S, Rubeshkumar P, Desing S, Vignesh MS, Raveendran I, Kumar P, Kathuria S, Choudhary S, Saroha E, Siromany V, Raju M, Ganeshkumar P, Ponnaiah M, Sodha SV, Laserson K, **Bhatnagar T**, Kapoor L, Bahl A, Jain SK, Gupta S, Murhekar MV, Singh SK. Outbreak of ceftriaxone-resistant Salmonella enterica serotype Typhi-Tiruchirappalli, Tamil Nadu, India, June 2018. *IJID Regions*, 2021 Dec;1: 60-4, <https://doi.org/10.1016/j.ijregi.2021.09.006>.
14. Kumar MS, Thangaraj JWV, Saravanakumar V, Selvaraju S, Kumar CPG, Sabarinathan R, Jagadeesan M, Hemalatha MS, Rani DS, Jeyakumar A, Sonekar HB, Rubeshkumar P, Prathiksha G, **Bhatnagar T**, Murhekar MV, Chennai COVID Seroprevalence Team. Monitoring the trend of SARS-CoV-2 seroprevalence in Chennai, India, July and October 2020, *Transactions of The Royal Society of Tropical Medicine and Hygiene* 2021 Nov; 115 (11): 1350–2, <https://doi.org/10.1093/trstmh/traab136> [IF: 2.184]
15. Rajamanickam A, Kumar NP, Pandiarajan AN, Selvaraj N, Munisankar S, Renji RM, Venkatramani V, Murhekar M, Thangaraj JWV, Kumar MS, Kumar CPG, **Bhatnagar T**, Ponnaiah M, Sabarinathan R, Saravanakumar V, Babu S. Dynamic alterations in monocyte numbers, subset frequencies and activation markers in acute and convalescent COVID-19 individuals. *Sci Rep* 2021 Oct; 11:20254. <https://doi.org/10.1038/s41598-021-99705-y> [IF: 5.133]
16. Mammen JJ, Kumar S, Thomas L, Kumar G, Zachariah A, Jeyaseelan L, Peter JV, Agarwal A, Mukherjee A, Chatterjee P, **Bhatnagar T** et al. Factors associated with mortality among moderate and severe patients with COVID-19 in India: a secondary analysis of a randomised controlled trial. *BMJ open*. 2021 Oct 1;11(10):e050571. [IF: 2.692]
17. Rajamanickam A, Kumar NP, Nancy PA, Selvaraj N, Munisankar S, Renji RM, Murhekar M, Thangaraj JW, Kumar MS, Kumar CG, **Bhatnagar T**. Recovery of Memory B-cell Subsets and Persistence of Antibodies in Convalescent COVID-19 Patients. *The American Journal of Tropical Medicine and Hygiene*. 2021 Sep 27. [IF: 2.126]
18. Barani S, Ganeshkumar P, **Bhatnagar T**. A12 Multi-specialty outpatient clinics (Polyclinics) for urban poor at Urban Primary Health Centers - Chennai, Tamil Nadu, India, 2019. Proceedings of 'FETP-ICON 2020' Conference. *BMC Proc* 2021 Aug;15:17. <https://doi.org/10.1186/s12919-021-00223-6> [IF: 1.57]
19. Saraswathi VS, Ganeshkumar P, **Bhatnagar T**, Murhekar M, Ponnaiah M, Prabakaran J. A15 Influenza A (H1N1) outbreak in Irular colony, New Gummidipoondi village, Tiruvallur health unit district, Tamil Nadu, India, 2017. Proceedings of 'FETP-ICON 2020' Conference. *BMC Proc* 2021 Aug;15:17. <https://doi.org/10.1186/s12919-021-00223-6> [IF: 1.57]
20. Hari Sankar, Sugunan AP, **Bhatnagar T**, Kumar G, Murhekar M, Lohithakshan SR, Sreedevi. A16 Contact tracing during Nipah outbreak, Ernakulam District, Kerala, India 2019. Proceedings of 'FETP-ICON 2020' Conference. *BMC Proc* 2021 Aug;15:17. <https://doi.org/10.1186/s12919-021-00223-6> [IF: 1.57]
21. Dey B, **Bhatnagar T**, Ponnaiah M, Mitra S, Kaur P. A19 Barriers towards timely reporting of and response to outbreaks in West Bengal, India 2015-16. Proceedings of 'FETP-ICON 2020' Conference. *BMC Proc* 2021 Aug;15:17. <https://doi.org/10.1186/s12919-021-00223-6> [IF: 1.57]
22. Yogananth N, **Bhatnagar T**. A54 Diarrhoeal disease, Water and Sanitation facility in rural Dharmapuri district, Tamil Nadu, India, 2011 – 2014. Proceedings of 'FETP-ICON 2020' Conference. *BMC Proc* 2021 Aug;15:17. <https://doi.org/10.1186/s12919-021-00223-6> [IF: 1.57]
23. Bajaj M, Sakthivel M, **Bhatnagar T**. A58 Outdoor Air Pollution and respiratory diseases, Faridabad, Haryana 2018. Proceedings of 'FETP-ICON 2020' Conference. *BMC Proc* 2021 Aug;15:17. <https://doi.org/10.1186/s12919-021-00223-6> [IF: 1.57]
24. Sharma A, Luvsansharav UO, Paul P, Lutgring JD, Call DR, Omulo S, Laserson K, Araos R, Munita JM, Verani J, Chowdhury F, Muneer SM, Espinosa-Bode A, Ramay B, Cordon-Rosales C, Kumar CPG, **Bhatnagar T**, Gupta N, Park B, Smith RM. Multi-country cross-sectional study of colonization with multidrug-resistant organisms: protocol and methods for the Antibiotic Resistance in Communities and Hospitals (ARCH) studies. *BMC Public Health* 2021 Jul;21:1412. <https://doi.org/10.1186/s12889-021-11451-y> [IF: 3.177]
25. Kumar G, Mukherjee A, Sharma RK, Menon GR, Sahu D, Wig N, Panda S, Rao VV, Singh S, Guleria R, Bhargava B, National Clinical Registry for COVID-19 Team. Clinical profile of hospitalized COVID-19 patients in first & second wave of the pandemic: Insights from an Indian registry based observational study. *The Indian Journal of Medical Research*. 2021 Jul 8. [IF: 2.375]
26. **Bhatnagar T**, Deshpande GR, Malhotra B, Ullas PT, Dhawde R, Sharma S, Mittal M, Vyas J, Ponnaiah M, Sapkal G, Bhandari S, Murhekar M. No evidence of recent Zika virus transmission among the cohort of pregnant women after the 2018 outbreak in Jaipur city, Rajasthan, India, 2019-20. *Journal of Clinical Virology Plus*. 2021 Jun 18:100031. [IF: 3.168]

27. Piraveenan M, Sawleshwarkar S, Walsh M, Zablotska I, Bhattacharyya S, Farooqui HH, **Bhatnagar T**, Karan A, Murhekar M, Zodpey S, Rao KSM, Pattison P, Zomaya A, Perc M. Optimal governance and implementation of vaccination programmes to contain the COVID-19 pandemic. *R. Soc. open sci.* 2021 Jun. <http://doi.org/10.1098/rsos.210429> [IF: 2.963]
28. Thangaraj JW, Kumar MS, Velusamy S, Kumar CPG, Selvaraju S, Sabarinathan R, Jagadeesan M, Hemalatha MS, **Bhatnagar T**, Murhekar MV. Age- & sex-specific infection fatality ratios for COVID-19 estimated from two serially conducted community-based serosurveys, Chennai, India, 2020. *Indian J Med Res* 2021 May;153(5&6):546-549. doi: 10.4103/ijmr.IJMR_365_21. [IF: 2.375]
29. Thangaraj JW, Kumar MS, Kumar CG, Kumar VS, Kumar NP, **Bhatnagar T**, Ponnaiah M, Sabarinathan R, Sudharani D, Nancy A, Jagadeesan M. Persistence of humoral immune response to SARS-CoV-2 up to 7 months post-infection: Cross-sectional study, South India, 2020-21. *The Journal of Infection*. 2021 May 28. [IF: 4.603]
30. Murhekar MV, **Bhatnagar T**, Thangaraj JW, Saravanakumar V, Kumar MS, Selvaraju S, Rade K, Kumar CG, Sabarinathan R, Turuk A, Asthana S. SARS-CoV-2 sero-prevalence among general population and healthcare workers in India, December 2020-January 2021. *International Journal of Infectious Diseases*. 2021 May 19. [IF: 3.623]
31. Selvaraju S, Santhosh Kumar M, Vivian Thangaraj JW, **Bhatnagar T**, Saravanakumar V, Girish Kumar CP, et al.; Chennai COVID Sero-Surveillance Team. Population-based serosurvey for severe acute respiratory syndrome coronavirus 2 transmission, Chennai, India. *Emerg Infect Dis*. 2021 Feb. <https://doi.org/10.3201/eid2702.203938> [IF: 6.259]
32. Murhekar MV, **Bhatnagar T**, Selvaraju S, Saravanakumar V, Thangaraj JW, Shah N, Kumar MS, Rade K, Sabarinathan R, Asthana S, Balachandar R. SARS-CoV-2 antibody seroprevalence in India, August–September, 2020: findings from the second nationwide household serosurvey. *The Lancet Global Health*. 2021 Jan 27. DOI:[https://doi.org/10.1016/S2214-109X\(20\)30544-1](https://doi.org/10.1016/S2214-109X(20)30544-1) [IF: 21.597]
33. Das S, Sundaramoorthy L, **Bhatnagar T**. Out-of-pocket expenditure for delivery at home and public health facilities in the context of conditional cash transfer and free delivery care programs: An analytical cross-sectional study in South 24 Parganas district, West Bengal, India, 2017. *Clinical Epidemiology and Global Health*. 2020 Dec 1;8(4):1395-401.
34. Agarwal A, Mukherjee A, Kumar G, Chatterjee P, **Bhatnagar T**, Malhotra P, on behalf of the PLACID Trial Collaborators. Convalescent plasma in the management of moderate covid-19 in adults in India: open label phase II multicentre randomised controlled trial (PLACID Trial). *BMJ* 2020;371:m3939 <http://dx.doi.org/10.1136/bmj.m3939> [IF: 30.223]
35. Murhekar MV, **Bhatnagar T**, Selvaraju S, et al. Prevalence of SARS-CoV-2 infection in India: Findings from the national serosurvey, May-June 2020. *Indian J Med Res*. 2020 Jul & Aug;152(1 & 2):48-60. doi: 10.4103/ijmr.IJMR_3290_20. PMID: 32952144. [IF: 2.375]
36. Kumar DP, Wadwekar V, Nair PP, Menon V, **Bhatnagar T**. Study of Sexual Dysfunction in People Living with Epilepsy at a Tertiary Care Center of South India. *Neurol India*. 2020 Jul-Aug;68(4):861-866. doi: 10.4103/0028-3886.293437. [IF: 2.128]
37. Vivian Thangaraj JW, Murhekar M, Mehta Y, Kataria S, Brijwal M, Gupta N, Choudhary A, Malhotra B, Vyas M, Sharma H, Yadav N, **Bhatnagar T**, Gupta N, Dar L, Gangakhedkar RR, Bhargava B. A cluster of SARS-CoV-2 infection among Italian tourists visiting India, March 2020. *Indian J Med Res*. 2020 May;151(5):438-443. doi: 10.4103/ijmr.IJMR_1722_20. [IF: 2.375]
38. ICMR COVID Study Group. Laboratory surveillance for SARS-CoV-2 in India: Performance of testing & descriptive epidemiology of detected COVID-19, January 22 - April 30, 2020. *Indian J Med Res*. 2020 May;151(5):424-437. doi: 10.4103/ijmr.IJMR_1896_20. [IF: 2.375]
39. Kumar MS, **Bhatnagar T**, Manickam P, Kumar VS, Rade K, Shah N, Kant S, Babu GR, Zodpey S, Girish Kumar CP, Vivian Thangaraj JW, Chatterjee P, Kanungo S, Pandey RM, Murhekar M, Singh SK, Sarkar S, Muliya JP, Gangakhedkar RR, Reddy DCS. National sero-surveillance to monitor the trend of SARS-CoV-2 infection transmission in India: Protocol for community-based surveillance. *Indian J Med Res*. 2020 May;151(5):419-423. doi: 10.4103/ijmr.IJMR_1818_20. [IF: 2.375]
40. Sahay RR, Yadav PD, Gupta N, Shete AM, Radhakrishnan C, Mohan G, Menon N, **Bhatnagar T**, Suma TK, Kadam AV, Ullas PT, Kumar BA, Sugunan AP, Sreekala VK, Khobragade R, Gangakhedkar RR, Mourya DT. Experiential learnings from the Nipah virus outbreaks in Kerala towards containment of infectious public health emergencies in India. *Epidemiol Infect*. 2020; 148: e90. Published online 2020 Apr 23. doi: 10.1017/S0950268820000825 [IF: 2.152]
41. Gupta N, **Bhatnagar T**, Rade K, Murhekar M, Gangakhedkar RR, Nagar A, ICMR COVID Team. Strategic planning to augment the testing capacity for COVID-19 in India. *Indian J Med Res*. 2020 Feb-Mar; 151(2-3): 210–215. doi: 10.4103/ijmr.IJMR_1166_20 [IF: 2.375]

42. Gupta N, Praharaj I, **Bhatnagar T**, Thangaraj JWV, Giri S, Chauhan H, Kulkarni S, Murhekar M, Singh S, Gangakhedkar RR, Bhargava B, ICMR COVID Team. Severe acute respiratory illness surveillance for coronavirus disease 2019, India, 2020. *Indian J Med Res.* 2020 Feb-Mar; 151(2-3): 236–240. doi: 10.4103/ijmr.IJMR_1035_20 [IF: 2.375]
43. Mandal S, **Bhatnagar T**, Arinaminpathy N, Agarwal A, Chowdhury A, Murhekar M, Gangakhedkar RR, Sarkar S. Prudent public health intervention strategies to control the coronavirus disease 2019 transmission in India: A mathematical model-based approach. *Indian J Med Res.* 2020 Feb-Mar; 151(2-3): 190–199. doi: 10.4103/ijmr.IJMR_504_20 [IF: 2.375]
44. **Bhatnagar T**, Murhekar MV, Soneja M, Gupta N, Giri S, Wig N, Gangakhedkar R. Lopinavir/ritonavir combination therapy amongst symptomatic coronavirus disease 2019 patients in India: Protocol for restricted public health emergency use. *Indian J Med Res.* 2020 Feb-Mar; 151(2-3): 184–189. doi: 10.4103/ijmr.IJMR_502_20 [IF: 2.375]
45. **Bhatnagar T**, Ralte M, Ralte L, Chawnglungmuana, Sundaramoorthy L, Chhakchhuak L. Intensified tuberculosis and HIV surveillance in a prison in Northeast India: Implementation research. *PLoS ONE* 2019;14(7): e0219988. <https://doi.org/10.1371/journal.pone.0219988> [IF: 2.740]
46. Kumar C, Sugunan AP, Yadav P, Kurup K, Aarathie R, Manickam P, **Bhatnagar T**, Radhakrishnan C, Thomas B, Kumar A, Jayasree V, Philomina B, Kumar KGS, Thulaseedharan NK, Gupta N, Rajendran R, Saritha RL, Mourya DT, Gangakhedkar RR, Murhekar MV. Infections among Contacts of Patients with Nipah Virus, India. *Emerg Infect Dis.* 2019 May;25(5):1007-1010. <https://dx.doi.org/10.3201/eid2505.181352> [IF: 6.259]
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48. Yogananth N, **Bhatnagar T**. Prevalence of open defecation among households with toilets and associated factors in rural south India: an analytical cross-sectional study. *Trans R Soc Trop Med Hyg* 2018;112(7):349-60. doi:10.1093/trstmh/try064 [IF: 2.63]
49. Debnath F, **Bhatnagar T**, Sundaramoorthy L, Ponnaiah M. Competency of peripheral health workers in detection & management of common syndromic conditions under surveillance, North 24 Parganas, West Bengal, India, 2016: a cross-sectional study. *Global Health Epid Genomics* 2017;2, e15:1-8. doi:10.1017/gheg.2017.13
50. Banurekha V, **Bhatnagar T**, Savithri S, Kumar ND, Kangusamy B, Mehendale S. Extent of Implementation of Screening Tuberculosis Patients for Diabetes Component of the Tuberculosis Control Programme in an Urban Setting in South India. *J Association Physicians India* 2017;65:102. [IF:0.183]
51. Banurekha V, **Bhatnagar T**, Savithri S, Kumar ND, Kangusamy B, Mehendale S. Sputum conversion and treatment success among tuberculosis patients with diabetes treated under the Tuberculosis Control Programme in an Urban setting in South India. *Indian J Community Med* 2017;42:180-2.
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Chapter in Book/Manual [4]

1. **Bhatnagar T**, Kaur P, Kumaraswami V. Links Between the Epidemiology and Control of Noncommunicable Diseases and Neglected Tropical Diseases in Asia. In: Utzinger J, Yap P., Bratschi M., Steinmann P. (eds) *Neglected Tropical Diseases - East Asia*. Neglected Tropical Diseases. Switzerland: Springer, Cham; 2019.

2. **Bhatnagar T.** Surveillance. In: Gupta P, Khan AM, eds. *Textbook of Community Medicine: Based on GUPTA: Textbook of Preventive and Social Medicine*, 1st Edition. New Delhi: CBS Publisher; 2016.
3. Greene N, **Bhatnagar T.** Guide for teaching assistants in a methods course. In: Olsen J, Greene N, Saracci R, Trichopoulos D, eds. *Teaching Epidemiology-a guide for teachers in epidemiology, public health and clinical medicine*, 4th Edition. Oxford University Press; 2015.
4. **Bhatnagar T.** Operations research. In: *Operational Guidelines - Regional STI Training, Research and Reference Laboratories*, Department of AIDS Control, Ministry of Health and Family Welfare, Government of India, February 2014.

Scientific Conference Presentations - 24

Publications in popular press [5]

1. **Bhatnagar T.** *Can schools be reopened during the pandemic?* The Hindu 2021, July 10. <https://www.thehindu.com/sci-tech/science/can-schools-be-reopened-during-the-pandemic/article35255138.ece>
2. **Bhatnagar T,** Menon G, Babu G. *Can some States serve as a bellwether for the third wave?* R Prasad (Ed.): The Hindu 2021, July 3. <https://www.thehindu.com/sci-tech/science/can-some-states-serve-as-a-bellwether-for-the-third-wave/article35124216.ece>
3. Babu G, **Bhatnagar T.** *Use epidemiology as a tool to fight Covid-19.* Hindustan Times. 2020 Mar 31. <https://www.hindustantimes.com/analysis/use-epidemiology-as-a-means-to-fight-covid-19-opinion/story-NxookvRCalzQHeMK6ZS4DK.html>
4. **Bhatnagar T.** *The shot that saves.* The Hindu Sunday Magazine; May 2, 2015. <http://www.thehindu.com/features/magazine/the-shot-that-saves/article7164482.ece>
5. Singh SP, **Bhatnagar T.** *Apka Swasthya Apke Haath.* Training booklet for NGO (Ashray Sewa Sanstha, Chandauli district, UP, India), 2003.

Faculty for conferences/workshops/training programmes/short courses/seminars/webinars [72]

1. Webinar on "*Adaptive trial: an evolving design in clinical trials*", Indian Council of Medical Research, New Delhi, 2 August, 2022
2. National Conference of Virology (Virtual mode), VIROCON 2021, 26-28 March, 2022
3. Webinar on "Update on Omicron", Scientific Society of Pondicherry Institute of Medical Sciences, Puducherry, 8 February, 2022
4. *COVID-19 Update in India*, Chasing the Sun: COVID-19, Beyond the Horizon, IDWeek, Infectious Diseases Society of America, 30 Sep, 2021
5. *Virtual Symposium on Evidence, decision making and policy for COVID-19 in India*, Ashoka University and The George Institute for Global Health, India, 9 Nov, 2020
6. *Webinar CME on COVID Therapeutics-Present Paradigm*, Venkateshwar Hospital, New Delhi, 15 August, 2020
7. *Webinar on COVID-19: Game Changer*, Scientific Society, Pondicherry Institute of Medical Sciences, Puducherry, 14 July, 2020
8. *National Webinar Series on the Current Global Pandemic of COVID-19*, Gargi College, University of Delhi, 5 May, 2020
9. ICMR/AUSTRC Workshop on *Epidemiologic Data Analysis and Inference*, ICMR-National Institute of Epidemiology, Chennai, 2-6 Dec, 2019
10. ICMR/AUSTRC Workshop on *Principles and Practice of Epidemiology, Public Health Surveillance, Outbreak Investigation and Response*, ICMR-National Institute of Epidemiology, Chennai, 18-22 Nov, 2019
11. *Short Duration Intensive Training Program in Public Health Ethics*, Forum for Medical Ethics Society, IIT Bombay, Mumbai, 17-21 Jul, 2019
12. *National conference on "Challenges and Opportunities for tackling Veterinary Public Health Issues at the Human, Animal & Environment Interface and XVI Annual Symposium of Indian Association of Veterinary Public Health Specialist "*, Nagpur, 26-27 Feb, 2019

Workshops / Training Programmes / Courses attended [27]

Awards/Fellowships

- ICMR certificate and medal in recognition of exemplary services during the Nipah virus outbreak in Kerala, 2019

- Dr BK Mahajan Award of Indian Association of Preventive and Social Medicine for best paper published in the Indian Journal of Community Medicine 2017 (Co-author) [Ranjan A, Bhatnagar T, Babu GR, Detels R. Sexual behavior, HIV prevalence and awareness among wives of migrant workers: results from cross-sectional survey in rural North India. *Indian J Community Med* 2017;42:24-9]
- 2nd Best Poster Award - Gupt A, Bhatnagar T, Murthy BN. Clinico-epidemiological profile and management practices for snakebites in Himachal Pradesh, India, 2008-2012. Poster presented at 55th ITM Colloquium - Health Systems and Control of Neglected Diseases in Asia, Institute of Public Health, Bengaluru, 20-23 Nov 2013 (Co-author)
- ICMR fellow for the “Collaborative Indo-Swedish Public Health Initiative for Research Excellence” (INSPIRE) Indo-Swedish Program in 2011-12
- Best Poster Award - Chang AP, Bhatnagar T. *Risk Factors Associated with HIV Infection among the Clients of Integrated Counseling and Testing Centres in Tuensang Sadar Block - Tuensang District, Nagaland, India, 2010*. Presented at International Conference on Emerging Frontiers and Challenges in HIV/AIDS Research, Mumbai, India, February 2011 (Co-author)
- Certificate of Achievement, Dashew Center for International Students and Scholars, University of California, Los Angeles, USA, 2011
- NSI Mumbai Chapter Prize in Nutrition Education & Food Supplementation - Nithya S, Bhatnagar T, Balamurugan P, Jeyachandran P, Pavithra N, Ramachandran R, Tang A, Dong K, Wanke C. *Food insecurity and dietary diversity among HIV positive and negative injecting drug users of Chennai, Tamil Nadu*. Poster presented at the 42nd Annual National Conference of the Nutrition Society of India, Mumbai, November 19-20, 2010 (Co-author)
- Teaching Assistant of The Year, Public Health Students Association, UCLA School of Public Health, Los Angeles, California, USA, 2006-2007
- Fogarty Fellow (National Institutes of Health, USA), AIDS International Training and Research Program, UCLA School of Public Health, Los Angeles, California, USA, 2004

Leadership positions

Program coordinator, Master of Public Health, ICMR School of Public Health, National Institute of Epidemiology, Chennai, India, 2013 - till date

Program Director, HIV Epidemiology Training Programme, ICMR School of Public Health, National Institute of Epidemiology, Chennai, India, 2012-14

Doctoral Students Representative (Epidemiology), Public Health Students Association, UCLA School of Public Health Los Angeles, California, USA, 2006-07

Membership of scientific bodies

India Clinical Epidemiology Network (IndiaCLEN)

Indian Public Health Association

International AIDS Society