


Resume

Name: Dr. Sanjay Bhattacharya

Designation: Senior Consultant, Department of Microbiology, Tata Medical Center, Kolkata, India

Contact details:

	Dr. Sanjay Bhattacharya MBBS, MD, DNB, DipRCPPath, FRCPath, CCT (UK) Senior Consultant in Microbiology Tata Medical Center 14 Major Arterial Road (E-W), New Town, Rajarhat, Kolkata 700 160, West Bengal. INDIA Email: Sanjay.Bhattacharya@tmckolkata.com ORCID ID: https://orcid.org/0000-0003-4139-1039 Research Gate: https://www.researchgate.net/profile/Sanjay-Bhattacharya-4 Google Scholar: https://scholar.google.co.in/citations?user=rpUwbWIAAAAJ&hl=en									
	Publication Metrics: <table border="1"><thead><tr><th></th><th>Overall</th></tr></thead><tbody><tr><td>Citations</td><td>8126</td></tr><tr><td>h-index</td><td>23</td></tr><tr><td>i10- index</td><td>57</td></tr><tr><td>Publications</td><td>166</td></tr></tbody></table> <p>Last updated: 14th December 2024</p>		Overall	Citations	8126	h-index	23	i10- index	57	Publications
	Overall									
Citations	8126									
h-index	23									
i10- index	57									
Publications	166									

- **West Bengal Medical Council Registration number:** 52929

Weblinks: URL of information sources>>

- **Tata Medical Center, Kolkata, India:** <http://www.tmckolkata.com/>
- **Department of Microbiology, Tata Medical Center, Kolkata, India:** <https://tmckolkata.com/in/microbiology/>

Current job description- responsibilities- experience-research projects:

- A. At Tata Medical Center, Kolkata, India: (job description/responsibilities)**
 - a. Tata Medical Center employee ID: 10023
 - b. Head of the Department of Microbiology
 - c. Chairperson of the Hospital Infection Control Committee
 - d. Member Secretary of the Institutional Bio-Safety Committee- 2021 onwards
 - e. Lead trainer for Clinical Microbiology fellowship program

- f. Visiting Faculty and Program Coordinator: Molecular Medical Microbiology (IIT-KGP and Tata Medical Center, Kolkata): joint MSC- PhD program
 - g. Former Visiting Faculty and MSc-PhD Program Coordinator: Molecular Medical Microbiology (IIT-Kharagpur+Tata Medical Center, Kolkata)
 - h. Trainer of Diploma in Medical Laboratory Technology (DMLT) course- affiliated to State Medical Faculty- at Tata Medical Center, Kolkata
 - i. Trainer of MSc course in Medical Laboratory Science and Technology MLST- affiliated to Ramakrishna Mission Vivekananda Educational and Research Institute (RKM VERI) at Tata Medical Center, Kolkata
 - j. Member of Research Support Directorate
 - k. Member of Doctoral Advisory Committee
 - l. Member of Staff Health Advisory Committee
 - m. Member off Drugs and Therapeutics Committee
 - n. Member of Antimicrobial Stewardship sub-committee
 - o. Former Member of the Scientific Research Committee
- B. At Regional Level within the State of West Bengal, India: (experience)**
- a. With the Institute of Health and Family Welfare, Government of West Bengal on Standard Treatment Guidelines for common Infectious Diseases
 - b. Good Clinical Laboratory Practice lecture sessions at IHFW, West Bengal Govt- on Biomedical Waste segregation and management
- C. At the National Level within India: (experience)**
- a. With Indian Council of Medical Research**
 - i. Standard Treatment guidelines
 - ii. Bacteriology Standard Operating Procedure
 - iii. Antimicrobial Resistance Surveillance
 - jjj. Antimicrobial Stewardship programs
 - b. With Centers for Disease Control and Prevention (in association with ICMR and the All India Institute of Medical Sciences, New Delhi):**
 - i. Surveillance of Health Care Associated Infections in Intensive Care Units
 - c. With the Department of Biotechnology (DBT):**
 - i. Real-time PCR development for Aspergillus and Candida
 - ii. Human Papilloma Virus screening (HPV) screening and genotyping in women for cervical cancer prevention
 - d. With National Centre for Disease Control and WHO-SEARO:**
 - Infection Prevention and Control Guideline development
 - AMSP guideline development
 - Treatment guideline development for Central Nervous System infections
 - e. With FISF- Fungal Infection Study Forum:**
 - i. Surveillance of Invasive Mould Infection in Indian Intensive Care Units
 - f. Former Editor-in-Chief:** Journal of the Academy of Clinical Microbiologists
 - g. National Council of Science Museums:** part of advisory group of NCSM initiative on “Superbug- The end of Antibiotics” exhibition (2019-2020); Vaccine exhibition

D. At the International Level: (experience)

- **With WHO**> Priority Pathogen List for Antibiotic Resistant Bacteria
- **With WHO**> On implementation strategies for the WHO Guidelines for the prevention and control of Carbapenem-Resistant Organisms> working group member of Environmental Cleaning and Disinfection
- **With WHO**> participant as an expert in the Technical Consultation on In Vitro Diagnostics for AMR 27-28 March 2019, WHO HQ, Geneva
- With the **UK-PHRST CLEAN Workshop**: 21st - 22nd June 2022 on Research questions in Environmental Cleaning and Disinfection of Healthcare Organizations > The workshop was convened by the UK Public Health Rapid Support Team (UK-PHRST) in partnership with Stellenbosch University. The UK Public Health Rapid Support Team is funded by UK Aid from the Department of Health and Social Care and is jointly run by UK Health Security Agency and the London School of Hygiene & Tropical Medicine.
- **With Tata Social Internship program**> Supervisor for summer internship program in Microbiology for graduate students for University of California at Berkeley, USA; University of Cambridge, UK; London School of Economics, UK> <https://www.tatasocial-in.com/>

Contributions in the field of Medical Microbiology:

1. Started Clinical Microbiology Fellowship program for post MD/DNB Microbiology doctors in India at Tata Medical Center, Kolkata
2. Started MSc-PhD course in Molecular Medical Microbiology at Tata Medical Center in Kolkata with Indian Institute of Technology at Kharagpur, India
3. Facilitated the development, validation and clinical use of several low cost molecular tests in Diagnostic Microbiology at Tata Medical Center, Kolkata
4. Author of about 150 scientific papers in peer reviewed journals including 15 book chapters.

Educational Qualifications

Degree	Institution	Field	Year
MBBS	North Bengal Medical College (University of North Bengal), Dist. Darjeeling (near Siliguri), West Bengal	Medical science	1994
MD	Jawaharlal Institute of Post-graduate Medical education and Research (Pondicherry University)	Microbiology	2000
DNB	National Board of	Microbiology	2001

Examinations (New Delhi)			
DipRCPath	Royal College of Pathologists, London, UK	Medical Microbiology	2004
FRCPath	Royal College of Pathologists, London, UK	Virology	2009
Certificate of Completion of Training	Post-graduate Medical Education and Training Board (United Kingdom)	Medical Microbiology and Virology	2009

Operational responsibilities:

1. Consultant and head of Microbiology at Tata Medical Center, Kolkata
2. Diagnostic responsibilities in Bacteriology, Virology, Mycology, Parasitology
3. Chairman of the Hospital Infection Prevention and Control Committee
4. Responsible for Environmental Microbiology Services
5. Responsible for quality and administrative aspects of Central Sterile Supply Department
6. Responsible for Clinical Microbiology and Clinical Virology consultation services
7. Lead consultant for the following training programs: Fellowship in Clinical Microbiology for doctors with postgraduate experience in Medical Microbiology; Molecular Medical Microbiology MSc/PhD course

Details of Training and Experience

Specialty Training:

- Certificate of Completion of Training in Medical Microbiology and Virology from the United Kingdom Postgraduate Medical Education and Training Board:
- DipRCPath in Microbiology (2005) and FRCPath in Virology in 2009.
- Worked as a Senior House Officer in Clinical Microbiology at University Hospitals of Leicester, and then as a Specialist Registrar in Clinical Microbiology at University Hospitals of Coventry and Warwickshire, City Hospital (Birmingham), and subsequently as Specialist Registrar in Clinical Virology University Hospital Birmingham and at Health Protection Agency laboratory at Birmingham Heartlands Hospital (West Midlands Virology Reference Laboratory).
- Senior Resident in Microbiology at JIPMER Pondicherry: April 2000 to Sept 2002
- Junior Resident in Microbiology at JIPMER, Pondicherry: April 1997 to March 2000.

Clinical Appointments

Date	Grade and Specialty	Place held	Teaching hospital/ University
01 Oct 2011 to till date	Senior Consultant in Microbiology	Tata Medical Center, Kolkata, India	Yes

02 August 2010 to 01 Oct 2011	Associate Consultant in Microbiology	Tata Medical Center, Kolkata, India	Yes
21 June to 09 July 2010	Consultant Microbiologist (locum)	West Suffolk Hospital NHS Trust, Bury St Edmunds, UK	Yes/ Cambridge
21 Dec 2009 to 20 June 2010	Consultant Virologist (locum)	King's College Hospital NHS Foundation Trust, London, UK	Yes/London
August 2009	Consultant Microbiologist (locum)	West Suffolk Hospital NHS Trust, Bury St Edmunds, UK	Yes/ Cambridge
Sept 2007 to July 2009	Specialist Registrar in Clinical Virology	Heart of England NHS Trust, Birmingham, UK	Yes/Birmingham
Sept 2006 to Sept 2007	Specialist Registrar in Clinical Virology	University Hospitals of Birmingham	Yes/Birmingham
March 2005 to Sept 2006	Specialist Registrar in Clinical Virology	Hospital Heart of England NHS Trust, Birmingham, UK	Yes/Birmingham
April 2004 to Feb 2006	Specialist Registrar in Clinical Microbiology	City Hospital, Birmingham, UK	Yes/Birmingham
Sept 2003 to April 2004	Specialist Registrar in Clinical Microbiology	University Hospitals of Coventry and Warwickshire, UK	Yes/Warwick
Sept 2002 to Sept 2003	Senior House Officer in Clinical Microbiology	University Hospitals of Leicester, UK	Yes/Leicester
April 2002 to Sept 2002	Senior Resident in Microbiology	JIPMER, Puducherry, India	Yes, Pondicherry
April 1997 to March 2000	Junior Resident in Microbiology	JIPMER, Puducherry, India	Yes, Pondicherry
Sept 1996 to Jan 1997	Junior Resident in Pathology	AIIMS, New Delhi, India	Yes, AIIMS
Aug 1995 to Jan 1006	House Staff in Neuro-Medicine	SSKM Hospital (IPGMER), Calcutta, India	Yes, Calcutta

Memberships:

- Royal College of Pathologists, UK; membership number: 10032774
- Indian Association of Medical Microbiologists; membership number: 2012
- Academy of Clinical Microbiologists: membership number: LM- 181/2011
- Indian Society of Medical Mycologists> membership number: LM-355
- British Society for Antimicrobial Chemotherapy; membership number: 102887
- Clinical Infectious Disease Society (of India): Membership number 420
- ISHAM (International Society for Human and Animal Mycology): MM5377 (2022-August)
- European Society of Clinical Microbiology and Infectious Diseases (ESCMID): membership number: 134641
- Society for Healthcare Epidemiology of America (SHEA). Membership number: 2813

Publications: ORCID ID: <https://orcid.org/0000-0003-4139-1039>

Virology:

1. SYMEC Research Group (Sureka K, Harisjamkar A, Mandal S, Roy S, Kar A, Ghosh B, Sarkar Ghosh S, Mukhopadhyay A), Mukhopadhyay A, Mathai S, Bhaumik J, Bhattacharya S, Chandy M. **Nested Multiplex Endpoint Polymerase Chain Reaction: An Alternative Method for Human Papilloma Virus Genotyping in Resource-limited Settings. J Acad Clin Microbiol 2024;26(1):1–6.**
2. Bhattacharya S, Chatterji S, Chandy M, Mahajan AY, Goel G, Mishra D, Vivek P, Das P, Mandal S, Chugani A, Mittal A, Perumal RC, Ramprasad VL, Gupta R. **Molecular epidemiology of SARS-CoV-2 in healthcare workers and identification of viral genomic correlates of transmissibility and vaccine break through infection: A retrospective observational study from a cancer hospital in eastern India. Indian J Med Microbiol. 2022 Oct 13;S0255-0857(22)00183-9. doi: 10.1016/j.ijmmb.2022.09.010.**
3. Bhattacharyya A, Das A, Dalvi-Mitra S, Goel G, Bhattacharya S, Chowdhury S, Saha V. **Surveillance and caregiver vaccination prevent varicella outbreaks in a residential care facility for children with cancer. Pediatr Blood Cancer. 2022 May;69(5):e29631. doi: 10.1002/pbc.29631. Epub 2022 Mar 2. PMID: 35234331.**
4. Sahoo S, Mandal S, Das P, Bhattacharya S, Chandy M. **An analysis of the standard curve parameters of cytomegalovirus, BK virus and hepatitis B virus quantitative polymerase chain reaction from a clinical virology laboratory in eastern India. Indian J Med Microbiol. 2022 Jan-Mar;40(1):81-85. doi: 10.1016/j.ijmmb.2021.09.007.**
5. Das P, Mondal S, Pal S, Roy S, Vidyadharan A, Dadwal R, Bhattacharya S, Mishra DK, Chandy M. **COVID diagnostics by molecular methods: A systematic review of nucleic acid based testing systems. Indian J Med Microbiol. 2021 Jul;39(3):271-278.**
6. Bhattacharya S, Iyer R, Raja K, Joy VM, Bijulal SR, George K, Goel G, Santosh S, Madhavan A, Ardra M, Dash D, Oommen S, Joe G, Shetty AK, Gupta YK, Prabhakar M S, Vengilat DH, Philomina J B, Sujatha S R, Hotta S, Gandhi C, Sehgal R, Kirupa S,

Sampath S, Mamtora DK, Kalyani M, Koppad M, Ashish J, Santhi M, Nair S, Sinha KK, Neetha T R. **A survey of practices to diagnose, manage, prevent and control COVID-19 from 28 centres.** *J Acad Clin Microbiol* 2020;22:5-11.

7. Bhattacharya S, Vidyadharan A, Joy VM. **Inconclusive SARS-COV-2 reverse transcription-polymerase chain reaction test reports: Interpretation, clinical and infection control implications.** *J Acad Clin Microbiol* 2020;22:59-61.
8. Mishra DK, Goel G, Arora N, Krishnan S, Bhattacharya S, Mathur P, Walia K, Chandy M. **The importance of intra- and inter institutional networks for capacity building in severe acute respiratory syndrome coronavirus 2 reverse transcription polymerase chain reaction services: experience from an oncology centre in eastern India.** *Indian J Med Microbiol* 2020;38:9-17.
9. Bhattacharya S, Sengupta K, Goel G. **Limitations of the 2016 National AIDS Control Organization guidelines regarding Human Immunodeficiency Virus testing in India.** *J Acad Clin Microbiol* 2018;20:57-9.
10. Bhattacharya S. **Why is dengue such an important public health problem in India?** *J Acad Clin Microbiol* 2018;20:3-4.
11. Bhattacharya S, Goel G, George K, Shamsundar R, Lancy J, Sudarsana J, Devi S R, Sangeetha S, Kant K, Sathiavathy K A, Sarada Devi K L, Rejitha K, Shailaja T S, Raveendran G, John AP, Sohanlal T, Varghese G, Madhavan A, Sen B, Suseela K V, Ahmed SM, Mathew R, Pulikkottil SK, Philomina J B, Chinnan JP, Rani S, Iyer R, Maiti S, Nath SR, Balakrishnan SM, Raja K. **Laboratory tests and clinical management of dengue in 26 healthcare institutions in India.** *J Acad Clin Microbiol* 2018;20:5-13.
12. Kumar M, Roychowdhury M, Kumar J, Harishankar A, Sinha S, Bhawe SJ, Chakrapani A, Radhakrishnan V, Nair R, Bhattacharya S, Chandy M. **Cytomegalovirus reactivation and disease amongst patients with allogeneic haematopoietic stem cell transplantation in Eastern India: Epidemiology, outcome and healthcare cost.** *Indian J Med Microbiol.* 2018 Jan-Mar;36(1):49-53.
13. Harishankar A, Chandy M, Bhattacharya S. **How to develop an in-house real-time quantitative cytomegalovirus polymerase chain reaction: Insights from a cancer centre in Eastern India.** *Indian J Med Microbiol.* 2015 Oct-Dec;33(4):482-90. (Special/review article)

14. Goel G, Laha A, Sarkar De M, Bhattacharya S, Mahajan A, Ramanan VR, Chandy M. **The Economics of a Chickenpox Outbreak in an Oncology Center in Eastern India.** Infect Control Hosp Epidemiol. 2015 Nov;36(11):1370-2. (Letter)
15. Bhattacharya S, Chatterjee S, Goel G, Mahajan A, Ramanan VR, Chandy M. **Epidemiology of sharps injury and splash exposure in an oncology care center in eastern India.** Infect Control Hosp Epidemiol. 2014 Sep;35(9):1201-3. (Letter)
16. Ahmed R, Bhattacharya S. **Universal screening versus universal precautions in the context of preoperative screening for HIV, HBV, HCV in India.** Indian J Med Microbiol. 2013 Jul-Sep;31(3):219-25. (Review article)
17. Bhattacharya S, Osman H. **BinaxNOW® - an immunochromatographic test for the diagnosis of human influenza viruses: comparison with viral culture and polymerase chain reaction.** Indian J Med Microbiol. 2011 Jan-Mar;29(1):19-21.
18. Bhattacharya S. **Swine influenza (novel H1N1): algorithms and common sense.** J Hosp Infect 2010;74:299-300. (Letter)
19. Bhattacharya S and Osman H. **Novel targets for antiretroviral therapy.** J Infect 2009;59(6):377-386. PubMed PMID: 19815027. (Review article)
20. Bhattacharya S, Ijaz S, Ratnaraja N, Smith S, Osman H, Boxall E. **Hepatitis B virus reactivation in a large haemodialysis unit: virological and infection control issues.** J Clin Virol. 2009;46(1):101-3. PMID: 19560397. (Case report)
21. Smit E, Bhattacharya S, Osman H, Taylor S. **Increased frequency of HIV-1 viral load blip rate observed after switching from Roche Cobas Amplicor to Cobas Taqman assay.** J Acquir Immune Defic Syndr. 2009; 51(3):364-5. PMID:19553776. (Original article)
22. Bhattacharya S, Paneesha S, Chaganti S, Lovell R, Slocombe G, Milligan D, Osman H. **"Viral" myocarditis in a patient following allogenic stem cell transplant: diagnostic dilemma and management considerations.** J Clin Virol. 2009; 45(3): 262-4. PMID: 19501546. (Case report)
23. Bhattacharya S, Price N, Boxall E, Adu D, Lipkin G, Smith S, Osman H. **Holiday haemodialysis and imported hepatitis C virus infection: a series of sixteen cases in two large haemodialysis units.** J Clin Virol. 2009; 45(4): 296-9. PMID: 19451020. (Case series)
24. Bhattacharya S, O'Donnell K, Dudley T, Kennefick A, Osman H, Boxall E, Mutimer D. **Ante-natal screening and post-natal follow-up of hepatitis B in the West Midlands of England.** QJM. 2008 ;101(4):307-12. PMID: 18281704. (Original article)

26. Bhattacharya S, Badrinath S, Hamide A, Sujatha S. **Seroprevalence of Hepatitis C virus in hospital based general population in South India.** *Indian J Med Microbiol* 2003; 21(1): 43-45. (Research paper) PMID: 17642973.
27. Bhattacharya S, Badrinath S, Hamide A, Sujatha S. **Co-infection with Hepatitis C virus and Human Immunodeficiency Virus among patients with Sexually Transmitted Diseases in Pondicherry, South India.** *Indian J Pathol Microbiol* 2003; 46(3): 495-497. (Research paper) PMID: 15025322.

Bacteriology:

1. Malik S, Shirvankar CM, Jacob RK, Adhya DG, Sinha S, Bhattacharya S, Walia K, Bhattacharya SD. **A systematic review and meta-analysis to develop a landscape map of antibiotic resistance for six WHO priority pathogens in east and north-east India from 2011 to 2022.** *Indian J Med Microbiol.* 2024 Sep 25;52:100732. doi: 10.1016/j.ijmmb.2024.100732.
2. Bhattacharya S. **Low Minimum Inhibitory Concentration of an Antibiotic Does Not Necessarily Imply a Better Antibiotic: Other Clinical and Pharmacological Factors Need Consideration for Antibiotic Selection.** *J Acad Clin Microbiol* 2024;26(1):27–28.
3. Kuruwa S, Zade A, Shah S, Moidu R, Lad S, Chande C, Joshi A, Hirani N, Nikam C, Bhattacharya S, Poojary A, Kapoor M, Kondabagil K, Chatterjee A. **An integrated method for targeted Oxford Nanopore sequencing and automated bioinformatics for the simultaneous detection of bacteria, fungi, and ARG.** *J Appl Microbiol.* 2024 Feb 1;135(2):lxae037. doi: 10.1093/jambio/lxae037. PMID: 38346849.
4. Mukherjee S, Bhattacharya S, Goel G, Sarkar Dey M, Bhattacharyya A. **High Proportion of Mucosal Barrier Injury- Laboratory Confirmed Bloodstream Infection Among Paediatric Oncology Patients in a Cancer Centre in Eastern India,** *Journal of the Pediatric Infectious Diseases Society* 2023; 12 (S1): S17-S18. <https://doi.org/10.1093/jpids/piado70.035>
5. Bhattacharya S. **Are we looking towards an early demise of ceftazidime/avibactam (CAZ/AVI) as an antibiotic?** *Indian J Med Microbiol.* 2023 Sep 4;46:100472. doi: 10.1016/j.ijmmb.2023.100472. Epub ahead of print. PMID: 37672876.
6. Pyne A, Bhattacharya S. **Option appraisal of matrix-assisted laser desorption ionisation time of flight systems for a diagnostic microbiology laboratory.** *J Acad Clin Microbiol* 2023;25:8-15
7. Ghosh S, Bhattacharya S, Goel G, Deshmukh RA, Javed R, Roychowdhury M, Sinha S, De MS, Nag A, Kumar J, Bhawe SJ, Nair R, Chandy M. **Hematopoietic stem-cell transplantation in a zoo of multidrug-resistant organisms: Data from a cancer center in eastern India.** *Transpl Infect Dis.* 2023 Jun 1:e14072. doi: 10.1111/tid.14072.
8. Mukherjee S, De MS, Goel G, Bhattacharyya A, Mallick I, Dabkara D, Bhaumik J, Roy MK, Majumdar PB, Chatterji S, Mukherjee S, Bhattacharya S, Chandy M. **Multi-drug resistant**

(MDR) and extensively drug-resistant (XDR) bacteraemia rates among cancer patients in an oncology hospital in eastern India: an 11-year retrospective observational study. *Infect Prev Pract.* 2023 Feb 18;5(2):100275. doi: 10.1016/j.infpip.2023.100275. PMID: 36915471; PMCID: PMC10006829

9. Bakthavatchalam YD, Elangovan D, Jaganathan SV, Subburaju N, Shankar A, Manokaran Y, J S, Devi R, Baveja S, Devi S, S J, Bhattacharya S, S M R, Yesudhasan B, Shetty V, Mutreja A, Manesh A, Varghese GM, Marwick CA, Parcell BJ, Gilbert IH, Veeraraghavan B. **In Vitro Activity of Two Cefepime-Based Novel Combinations, Cefepime/Taniborbactam and Cefepime/Zidebactam, against Carbapenemase-Expressing Enterobacterales Collected in India.** *Microbiol Spectr.* 2023 Feb 27:e0492522. doi: 10.1128/spectrum.04925-22.
10. Raja K, Mukhopadhyay C, Shetty AK, Chinnan JP, Sudarsana J, Jose RA, Saritha N, Ravindranath C, Goel G, Valsan C, Sundaramoorthy S, Joy S, Sagila S G, Jakribettu RP, Sarada Devi K L, Ponnambath DK, Jithendranath A, Dinesh KR, Berry R, Iyer RN, John AP, Bhattacharya S. **Detection and reporting of Carbapenemase producing Gram negative bacilli in Clinical Microbiology: A survey of practices in laboratories across India.** *J Acad Clin Microbiol* 2022;24:55-62
11. Sharma M, Gangakhedkar RR, Bhattacharya S, Walia K. **Understanding complexities in the uptake of indigenously developed rapid point-of-care diagnostics for containment of antimicrobial resistance in India.** *BMJ Glob Health.* 2021 Sep;6(9):e006628. doi: 10.1136/bmjgh-2021-006628.
12. Vijay S, Bansal N, Rao BK, Veeraraghavan B, Rodrigues C, Wattal C, Goyal JP, Tadepalli K, Mathur P, Venkateswaran R, Venkatasubramanian R, Khadanga S, Bhattacharya S, Mukherjee S, Baveja S, Sistla S, Panda S, Walia K. **Secondary Infections in Hospitalized COVID-19 Patients: Indian Experience.** *Infect Drug Resist.* 2021 May 24;14:1893-1903.
13. Das S, Roy S, Roy S, Goel G, Sinha S, Mathur P, Walia K, Bhattacharya S. **Colistin susceptibility testing of gram-negative bacilli: Better performance of vitek2 system than E-test compared to broth microdilution method as the gold standard test.** *Indian J Med Microbiol.* 2020 Jan-Mar;38(1):58-65. doi: 10.4103/ijmm.IJMM_19_480.
14. Vijayakumar S, Wattal C, Oberoi JK, Bhattacharya S, Vasudevan K, Anandan S, Walia K, Veeraraghavan B. **Insights into the complete genomes of carbapenem-resistant *Acinetobacter baumannii* harbouring bla OXA-23, bla OXA-420 and bla NDM-1 genes using a hybrid-assembly approach.** *Access Microbiology.* 05 June 2020 <https://doi.org/10.1099/acmi.o.000140>
15. Roy S, Das P, Das S, Roy S, Pal S, Joy VM, Mukherjee S, Bhattacharyya A, Goel G, Bhattacharya S, Mathur P, Walia K, Chandy M. **Detection of the emergence of mcr-1-mediated colistin-resistant *Escherichia coli* and *Klebsiella pneumoniae* through a hospital-based surveillance in an oncology center in eastern India.** *Infect Control Hosp Epidemiol.* 2020 Jan 9:1-2. doi: 10.1017/ice.2019.363.

16. Vijayakumar S, Anandan S, Ms DP, Kanthan K, Vijayabaskar S, Kapil A, Ray P, Sistla S, Bhattacharya S, Wattal C, Thirunarayan, Deotale V, Mathur P, Walia K, Ohri VC, Veeraraghavan B. **Insertion sequences and sequence types profile of clinical isolates of carbapenem-resistant *A. baumannii* collected across India over four year period.** *J Infect Public Health*. 2019 Dec 21. pii: S1876-0341(19)30361-2. doi: 10.1016/j.jiph.2019.11.018.
17. Das S, Roy S, Roy S, Goel G, Walia K, Mukherjee S, Bhattacharya S, Chandy M. **Rapid and economical detection of eight carbapenem-resistance genes in Enterobacteriaceae, *Pseudomonas* spp, and *Acinetobacter* spp directly from positive blood cultures using an internally controlled multiplex-PCR assay.** *Infect Control Hosp Epidemiol*. 2019 Jun;40(6):737-739.
18. Das A, Bhav S, Pal B, Arun I, Goel G, Bhattacharya S, Sen S, Das J, Bhattacharyya P. **Brucellosis Complicated by Kikuchi-Fujimoto Disease and Doxycycline-Induced Intracranial Hypertension.** *Indian J Pediatr*. 2019 Apr 3. doi:10.1007/s12098-019-02937-0.
19. Bennett Z, Dhar R, Dhar K, Das K, Harishankar A, Bhattacharya S, Chandy M. **The economics of managing tuberculosis in cancer patients in an oncology center in eastern India.** *Infect Control Hosp Epidemiol*. 2019 Jan;40(1):122-124.
20. Pragasam AK, Veeraraghavan B, Anandan S, Narasiman V, Sistla S, Kapil A, Mathur P, Ray P, Wattal C, Bhattacharya S, Deotale V, Subramani K, Peter JV, Hariharan TD, Ramya I, Iniyar S, Walia K, Ohri VC. **Dominance of international high-risk clones in carbapenemase-producing *Pseudomonas aeruginosa*: Multicentric molecular epidemiology report from India.** *Indian J Med Microbiol*. 2018 Jul-Sep;36(3):344-351.
21. Bhaumik J, Mukhopadhyay A, Ghosh A, Bhattacharya S, Chakraborti B. **Postoperative infection rate and clinical outcome after onco-surgery for endometrial carcinoma in a patient population with high prevalence of multidrug-resistant organism colonization and multiple comorbidities.** *Infect Control Hosp Epidemiol*. 2018 Sep;39(9):1140-1141.
22. Muennichow CE, Goel G, Bhattacharyya A, Nair R, Chandy M, Bhattacharya S. **Clinical Outcome, Healthcare Cost and Length of Hospital Stay Among Patients With Bloodstream Infections and Acute Leukemia in a Cancer Center in Eastern India.** *Infect Control Hosp Epidemiol*. 2018 Jun 18:1-2.
23. Das P, Sengupta K, Goel G, Bhattacharya S. **Colistin: Pharmacology, drug resistance and clinical applications.** *J Acad Clin Microbiol* 2017;19:77-85.

24. Devereux S, Goel G, Sengupta K, Bhattacharya S. **Blood stream infections as a predictor of length of hospital stay and cost of care in patients with cancer.** J Acad Clin Microbiol 2017;19:118-20.
25. Tacconelli E et al WHO Pathogens Priority List Working Group. **Discovery, research, and development of new antibiotics: the WHO priority list of antibiotic-resistant bacteria and tuberculosis.** Lancet Infect Dis. 2018 Mar;18(3):318-327.(Dr. Sanjay Bhattacharya was one of the members of the WHO Pathogens Priority List Working Group)
26. Chandy M, Das A, Bhattacharyya A, Banerjee S, Dhar K, Goel G, Bhattacharya S. **Colistin-Resistant Klebsiella Infections Among Pediatric Oncology and Hematopoietic Stem Cell Transplantation Patients in Eastern India.** Infect Control Hosp Epidemiol. 2017 Nov 27:1-3.
27. Raja K, Bhattacharya S, Philomina J B, Nagaraj S, Devi Sarada K L, Sathivathy K A, Oommen S, Sangeetha A V, Sudarsana J, John R, Mathew R, Pillai A, Gopal K, Ahmed SM, Kurian S, Deepasankari T L, Madhavan A, Nair PK, Nair L, Hisham P P, Sheena K. **Comparison of antimicrobial susceptibility testing practices in 20 clinical microbiology laboratories in India.** J Acad Clin Microbiol 2017;19:5-11
28. Exner M, Bhattacharya S, Christiansen B, Gebel J, Goroncy-Bermes P, Hartemann P, Heeg P, Ilschner C, Kramer A, Larson E, Merkens W, Mielke M, Oltmanns P, Ross B, Rotter M, Schmithausen RM, Sonntag HG, Trautmann M. **Antibiotic resistance: What is so special about multidrug-resistant Gram-negative bacteria?** GMS Hyg Infect Control. 2017 Apr 10;12:Doc05. doi: 10.3205/dgkh000290.
29. Chowdhury G, Joshi S, Bhattacharya S, Sekar U, Birajdar B, Bhattacharyya A, Shinoda S, Ramamurthy T. **Extraintestinal Infections Caused by Non-toxigenic Vibrio cholerae non-O1/non-O139.** Front Microbiol. 2016 Feb 11;7:144.
30. Bhattacharya S, Goel G, Mukherjee S, Bhaumik J, Chandy M. **Epidemiology of Antimicrobial Resistance in an Oncology Center in Eastern India.** Infect Control Hosp Epidemiol. 2015; 36(7):864-6.(Letter)
31. Goel G, Das D, Mukherjee S, Bose S, Das K, Mahato R, Bhattacharya S. **A method for early detection of antibiotic resistance in positive blood cultures: experience from an oncology centre in eastern India.** Indian J Med Microbiol. 2015 Feb;33 Suppl:53-8.(Original article)

32. Bhattacharyya A, Krishnan S, Saha V, Goel G, Bhattacharya S, Hmar L. **Microbiology, infection control and infection related outcome in pediatric patients in an oncology center in Eastern India: Experience from Tata Medical Center, Kolkata.** Indian J Cancer. 2014 Oct-Dec;51(4):415-7.
33. Goel G, Hmar L, Sarkar De M, Bhattacharya S, Chandy M. **Colistin-resistant Klebsiella pneumoniae: report of a cluster of 24 cases from a new oncology center in eastern India.** Infect Control Hosp Epidemiol. 2014 Aug;35(8):1076-7. (Letter)
34. Bhattacharya S. **Early diagnosis of resistant pathogens: how can it improve antimicrobial treatment?** Virulence. 2013 Feb 15;4(2):172-84. (Review article)
35. Swann RA, Bhattacharya S. **Vancomycin-dependent Enterococcus.** Indian J Med Microbiol. 2011 Jan-Mar;29(1):71-2.
36. Bhattacharya S. **ESBL- from Petri dish to the patient.** Indian J Med Microbiol 2006; 24: 20-24. (Special article) PMID: 16505550.
37. Partner AM, Bhattacharya S, Scott RA, Stavrou P. **Rothia genus endophthalmitis following penetrating injury in a child.** Eye. 2006; 20; 502-503. (Letter) PMID: 15877090.
38. Bhattacharya S, Livsey SA, Wiselka M, Bukhari SS. **Fusobacteriosis presenting as community acquired pneumonia.** Journal of Infection 2005; 50: 236-9. (Case report) PMID: 15780418.
39. Shanmuganathan C, Ananthakrishnan A, Jayakeerthi SR, Kanungo R, Kumar A, Bhattacharya S, Badrinath S. **Learning from an outbreak: ESBL- the essential points.** Indian J Med Microbiol 2004; 22(4): 255-257. (Outbreak Report) PMID: 17642750.
40. Karthik S, Bhattacharya S, Harish BN, Parija SC. **Detection of slime production by coagulase-negative Staphylococcus: an assessment of two methods.** Indian J Pathol Microbiol 2004; 47(1): 85-9. (Research paper) PMID: 15471145.
41. Kanungo R, Vijayalakshmi N, Nalini P, Bhattacharya S. **Diphtheria due to non-toxigenic Corynebacterium diphtheriae: a report of two cases.** Indian J Med Microbiol 2002; 20(1): 50-52. (Case report) PMID: 17657027.
42. Kanungo R, Kumar A, Bhattacharya S, Badrinath S, Dutta TK, Das AK. **Problem of timely diagnosis of anthrax meningitis.** J Assoc Physicians India 2002; 50:913-915. (Review) PMID: 12126347.
43. Kanungo R, Padhan P, Bhattacharya S, Sriman Narayan J, Jayanthi S, Swaminathan RP. **Melioidosis- a report from Pondicherry, South India.** J Assoc Physicians India 2002; 50: 1438-9. (Case report) PMID: 12583480.

44. Sujatha S, Parija SC, Bhattacharya S, Sheela Devi C, Prabagaravarathanan, Puii JL, Kumar S. **Anthrax peritonitis: report of a rare case.** Tropical Doctor 2002; 32(4): 247-8. (Case report) PMID: 12405320.
45. Bhattacharya S, Vijayalakshmi N, Parija SC. **Uncultivable bacteria: implications and recent trends towards identification.** Indian J Med Microbiol 2002; 20(4): (Review article) PMID: 17657065.
46. Bhattacharya S, Kanungo R, Natarajan MK, Mahalakshmi VN, Srinivasan K. **Unimicrobial appendicitis due to non-vaccine serotype of *Streptococcus pneumoniae*: implications for management and prevention.** Indian J Med Microbiol 2001; 19(2): 101-102. (Case report) PMID: 17664810.
47. Karthikeyan K, Bhattacharya S, Thappa DM, Kanungo R. **Anthrax in an infant.** Indian Pediatr 2001; 38(7): 777-779. (Case report) PMID: 11463966.
48. Kumar A, Kanungo R, Bhattacharya S, Badrinath S, Dutta TK, Swaminathan RP. **Human anthrax in India: Urgent need for effective prevention.** J Common Dis 2000; 32(4): 240-246. (Review) PMID: 11668934.
49. Kanungo R, Kumar A, Bhattacharya S. **Antimicrobial resistance among common bacterial respiratory pathogens.** Indian J Med Microbiol 2000; 18 (2): 55-61. (Review article)

Mycology:

1. Mathur et al. **Candidaemia and Central Line-Associated Candidaemia in a Network of Indian ICUs: Impact of COVID-19 Pandemic.** Mycoses 2024. <https://doi.org/10.1111/myc.13790>
2. Parveen S, Bhattacharya S. **Option appraisal of various β -D-glucan assay systems for a diagnostic microbiology laboratory.** J Acad Clin Microbiol 2023;25:1-7
3. Chatterji S, Bhattacharya S, Mukherjee S, Bhattacharyya PS, Goel G, Das P, et al. **A retrospective observational study on incidence and clinic-epidemiological features of COVID-19 associated pulmonary aspergillosis among cancer patients hospitalized with COVID-19 in a tertiary care cancer centre of India.** Int J Community Med Public Health. 2023 Jul;10(7):2506-2513 <https://www.ijcmph.com/index.php/ijcmph/article/view/11241>
4. Mukherjee S, Ghosh PS, Bagchi S, Bhattacharya S. **Clinical Significance of Trichosporon in Urine of Immunocompromised Host.** Indian Journal of Critical Care Case report. 2023; 2 (2):37-39. DOI: 10.5005/jp-journals-11006-0044

5. Das P, Bhattacharyya A, Bhattacharyya P, Dhar K, Das K, Bhattacharya S. **Pythiosis in a patient with Acute Myeloid Leukemia: Diagnosis and clinical course.** *J Mycol Med.* 2022 Apr 22;32(3):101279. doi: 10.1016/j.mycmed.2022.101279.
6. Biswal M, Gupta P, Kanaujia R, Kaur K, Kaur H, Vyas A, Hallur V, Behera B, Padaki P, Savio J, Nagaraj S, Chunchanur SK, Shwetha JV, Ambica R, Nagdeo N, Khuraijam R, Priyolakshmi N, Patel K, Thamke D, Dash L, Jadhav D, Bharmal R, Bhattacharya S, Rudramurthy SM, Chakrabarti A. **Evaluation of hospital environment for presence of Mucorales during COVID-19-associated mucormycosis outbreak in India - a multi-centre study.** *J Hosp Infect.* 2022 Feb 3;122:173-179. doi: 10.1016/j.jhin.2022.01.016. Epub ahead of print. PMID: 35124141; PMCID: PMC8810519.
7. Sharma D, Paul RA, Rudramurthy SM, Kashyap N, Bhattacharya S, Soman R, Shankarnarayan SA, Chavan D, Singh S, Das P, Kaur H, Ghosh AK, Prasad R, Sanyal K, Chakrabarti A. **Impact of FKS1 Genotype on Echinocandin In Vitro Susceptibility in Candida auris and In Vivo Response in a Murine Model of Infection.** *Antimicrob Agents Chemother.* 2022 Jan 18;66(1):e0165221. doi:10.1128/AAC.01652-21.
8. Chakrabarti A, Kaur H, Savio J, Rudramurthy SM, Patel A, Shastri P, Pamidimukkala U, Karthik R, Bhattacharya S, Kindo AJ, Bhattacharya P, Todi S, Gopalakrishan R, Singh P, Pandey A, Agarwal R. **Epidemiology and clinical outcomes of invasive mould infections in Indian intensive care units (FISF study).** *J Crit Care.* 2019 Jun;51:64-70.
9. Das P, Pandey P, Harishankar A, Chandy M, Bhattacharya S, Chakrabarti A. **Standardization of a two-step real-time polymerase chain reaction based method for species-specific detection of medically important Aspergillus species.** *Indian J Med Microbiol* 2017;35;381-8.
10. Goel G, Chandy M, Bhattacharyya A, Banerjee S, Chatterjee S, Mullick S, Sinha S, Sengupta K, Dhar K, Bhattacharya S, Rudramurthy S, Chakrabarti A. **Mortality associated with candidemia in non-neutropenic cancer patients is not less compared to a neutropenic cohort of cancer patients.** *Eur J Clin Microbiol Infect Dis.* 2017;36(12):2533-2535.
11. Das P, Pandey P, Harishankar A, Chandy M, Bhattacharya S. **A high yield DNA extraction method for medically important Candida species: A comparison of manual versus QIAcube-based automated system.** *Indian J Med Microbiol.* 2016 Oct-Dec;34(4):533-535. (Brief Communication)
12. Das K, Bhattacharyya A, Chandy M, Roy MK, Goel G, Hmar L, Bhattacharya S, Roy P, Chakrabarti A. **Infection Control Challenges of Infrequent and Rare Fungal Pathogens: Lessons from Disseminated Fusarium and Kodamaea ohmeri Infections.** *Infect Control Hosp Epidemiol.* 2015; 36: 866-868. PubMed PMID: 25998614.(Letter)

13. Arora N, Parihar M, Mishra D, Bhattacharya S, Chakrapani A. **Candida parapsilosis in peripheral blood.** Indian J Pathol Microbiol. 2014 Oct-Dec;57(4):645.

Parasitology:

1. Sardar SK, Goel G, Ghosal A, Deshmukh R, Bhattacharya S, Haldar T, Maruf MM, Mahto R, Kumar J, Bhave SJ, Dutta S, Ganguly S. **First case report of Cyclosporiasis from eastern India: Incidence of Cyclospora cayetanensis in a patient with unusual diarrheal symptoms.** J Infect Dev Ctries. 2023 Jul 27;17(7):1037-1040. doi: 10.3855/jidc.17465. PMID: 37515795.
2. Parija SC, Lalmuanpuii J, Bhattacharya S, Chandrasekhar S. **Parasitic Infections of the Central Nervous System.** J Parasitic Dis 2005; 29 (2): 85-96. (Review)
3. Parija SC, Bhattacharya S, Padhan P. **Thick stool smear wet mount examination: a new approach in stool microscopy.** Tropical Doctor 2003; 33(3): 173. (Research paper)
b. PMID: 12870610.
4. Parija SC, Bhattacharya S, Padhan P, Shivaprakash MR. **Evaluation of formalin-acetone sedimentation in the concentration of stool for intestinal parasites.** Tropical Doctor 2003; 33(3): 163-4. (Research paper) PMID: 12870605.
5. Parija SC, Pradhan SC, Bhattacharya S. **Parasitic infections in travellers visiting tropical countries.** J Parasitic Diseases 2003; 27(2): 76-84. (Review)
6. Parija SC, Bhattacharya S. **The tragedy of tigers: Lessons to learn from the Nandankanan episode.** Indian J Med Microbiol 2001; 19(3): 116-118. (Article on zoonotic Trypanosomiasis) PMID: 17664812.
7. Parija SC, Bhattacharya S. **Isospora belli and Cyclospora cayetanensis as a cause of diarrhoea in an immunocompromized host.** J Assoc Physicians India 2000; 48 (12): 1192. (Pictorial CME) PMID: 11280226.

Infection Prevention and Control:

1. Gon G, Dramowski A, Hornsey E, Graham W, Fardousi N, Aiken A, Allegranzi B, Anderson D, Bartram J, Bhattacharya S, Brogan J, Caluwaerts A, Padoveze MC, Damani N, Dancer S, Deeves M, Denny L, Feasey N, Hall L, Hopman J, Chetty LK, Kiernan M, Kilpatrick C, Mehtar S, Moe C, Nurse-Findlay S, Ogunsola F, Okwor T, Pascual B, Patrick M, Pearse O, Peters A, Pittet D, Storr J, Tomczyk S, Weiser TG, Yakubu H. **Research priorities to strengthen environmental cleaning in healthcare facilities: the CLEAN Group Consensus.** Antimicrob Resist Infect Control. 2024 Sep 27;13(1):112. doi: 10.1186/s13756-024-01463-9.

2. Mathur P, Ningombam A, Soni KD, Aggrawal R, Singh KV, Samanta P, Gupta S, Srivastava S, Behera B, Tripathy S, Ray P, Biswal M, Rodrigues C, Bhattacharya S, Mukherjee S, Mukherjee S, Venkatesh V, Verma S, Arshad Z, Tak V, Bhatia PK, Nag V, Karuna T, Saigal S, Sharma JP, Singh S, Mukhopadhyay C, Ke V, Varma M, Majumdar T, Deotale V, Attal R, Iravane J, Harbade M, Omkari A, Walia K. **Surveillance of ventilator associated pneumonia in a network of indian hospitals using modified definitions: a pilot study.** *Lancet Reg Health Southeast Asia.* 2024 Jul 18;28:100450. doi: 10.1016/j.lanse.2024.100450. PMID: 39130755.
3. Bhattacharya S. **Choosing the right disinfectant. An Infection Control specialist's view.** *Clean India Journal.* February 2023. Volume 19 (2): 30-32. <https://www.cleanindiajournal.com/emag/2023/february/mobile/index.html#p=1>
4. Mathur P et al. **Health-care-associated bloodstream and urinary tract infections in a network of hospitals in India: a multicentre, hospital-based, prospective surveillance study.** *Lancet Glob Health* 2022; 10: e1317–25.
5. Mukherjee S, Mukherjee S, Mahto R, Basu D, Javed R, Goel G, Bhattacharya S, Basu S, Chandy M. **Importance and results of sterility testing of various products in a microbiology laboratory of eastern India.** *Indian J Med Microbiol.* 2022 Jan-Mar;40(1):138-140. doi: 10.1016/j.ijmmb.2021.10.008.
6. Exner M, Bhattacharya S, Gebel J, et al. **Chemical disinfection in healthcare settings: critical aspects for the development of global strategies.** *GMS Hyg Infect Control.* 2020;15:Doc36. Published 2020 Dec 23. doi:10.3205/dgkh000371 (consensus paper)
7. Bhattacharya S, Joy VM, Vivek P. **Personal-protective equipment priority list for developing countries in relation to the COVID-19 pandemic.** *J Acad Clin Microbiol* 2020;22:56-8.
8. Bhattacharya, S. **Improving Diagnostic and Laboratory Capacity Helps in Control of Infection: an Indian Perspective.** *Curr Treat Options Infect Dis* (2020). <https://doi.org/10.1007/s40506-020-00215-8>
9. Agarwal N, Agarwal SK, Bhattacharya S, Datta SS, Chatterjee S, Ahmed R. **Antibiotic prophylaxis for Breast Onco-Surgery in a setting with high prevalence of multi-drug resistant bacteria: Common Sense Infection Control Measures are more important than Prolonged Antibiotics.** *Infect Control Hosp Epidemiol.* 2018 Apr; 39(4):498-500.
10. Goel G, Bhattacharya S, Chandy M. **Soaps and infection control: From chemistry to microbiology.** *J Acad Clin Microbiol* 2017;19:66-9.
11. Basu D, Dutta SK, Bhattacharya S, Mahajan A, Ramanan VR, Chandy M. **The Economics of Autoclave-Based Sterilization: Experience from Central Sterile Supply**

Department of a Cancer Center in Eastern India. Infect Control Hosp Epidemiol 2016; 37(7): 878-80.

12. Roychowdhury M, Kumar J, Chakrapani A, Jayant Bhav S, Krishnan S, Thambudorai R, Bhattacharya S, Chandy M. **Low Incidence of Central Venous Catheter-Related Bloodstream Infections in Stem Cell Transplant Patients in Eastern India Despite High Community Burden of Multidrug-Resistant Pathogens.** Infect Control Hosp Epidemiol. 2016 May;37(5):619-20.(Letter)
13. Bhalchandra R, Bhattacharya S, Soundaranayagam JR, Garai S, Chandy M. **Importance of Air Particle Counts in Hospital Infection Control: Insights From a Cancer Center in Eastern India.** Infect Control Hosp Epidemiol. 2015 Sep;36(9):1115-7.(Letter)
14. Basu S, Goel G, Bhattacharya S. **Infection prevention in transfusion practice.** Infect Control Hosp Epidemiol. 2015 May;36(5):613-4. (Letter)
15. Basu D, Bhattacharya S, Mahajan A, Ramanan VR, Chandy M. **Sterilization indicators in central sterile supply department: quality assurance and cost implications.** Infect Control Hosp Epidemiol. 2015 Apr;36(4):484-6. (Letter)
16. Basu D, Bhattacharya S, Mahajan A, Ramanan VR, Chandy M. **The importance of the central sterile supply department in infection prevention and control.** Infect Control Hosp Epidemiol. 2014 Oct;35(10):1312-4. (Letter)
17. Bhalchandra R, Chandy M, Ramanan VR, Mahajan A, Soundaranayagam JR, Garai S, Bhattacharya S. **Role of water quality assessments in hospital infection control: Experience from a new oncology center in eastern India.** Indian J Pathol Microbiol. 2014 Jul-Sep;57(3):435-8. (Brief Communication)
18. Dalen Rv, Gombert K, Bhattacharya S, Datta SS. **Mind the mind: Results of a hand-hygiene research in a state-of-the-art cancer hospital.** Indian J Med Microbiol. 2013 Jul-Sep;31(3):280-2. (Brief Communication)
19. Bhattacharya S, Das D, Bhalchandra R, Goel G. **Patient isolation in the high-prevalence setting: challenges with regard to multidrug-resistant gram-negative bacilli.** Infect Control Hosp Epidemiol. 2013 Jun;34(6):650-1. (Letter)
20. Bhattacharya S. **Is screening patients for antibiotic-resistant bacteria justified in the Indian context?** Indian J Med Microbiol. 2011 Jul-Sep;29(3):213-7. (Review article)

Antimicrobial stewardship:

1. Walia K, Chaudhuri S, Sinha R, Ghosh SS, Chowdhury A, Manna S, Bhattacharya S. **Public Awareness on Antimicrobial Resistance: Results of a Community-Based Survey and Implications for Policy.** ORF Special Report No. 188, May 2022, Observer Research Foundation. <https://www.amr-insights.eu/public-awareness-on-antimicrobial-resistance-results-of-a-community-based-survey-and-implications-for-policy/>
2. Singh SK, Sengupta S, Antony R, Bhattacharya S, Mukhopadhyay C, Ramasubramanian V, Sharma A, Sahu S, Nirkhivale S, Gupta DS, Rohit A, Sharma S, Raghavan V, Barman P, Sood S, Mamtara D, Rengaswamy S, Arora A, Goossens H, Versporten A. **Variations In Antibiotic Use Across India - Multicentre Study Through Global Point Prevalence Survey.** *J Hosp Infect.* 2019 Jun 3. pii: S0195-6701(19)30229-4. doi: 10.1016/j.jhin.2019.05.014.
3. Bhattacharya S, Joy VM, Goel G, Nath SR, Santosh S, George K, Iyer R, Raja K, Uma A, Gupta A, Madhavan A, Chakraborty A, Sen B, Philomina B, Mamtara DK, Dinoop K P, Lancy J, Dasgupta M, Jain MR, Tajuddin M, Kishor N, Nair P, Rejitha K, Nair RN, Devi S, Shailaja T S, Shilpa A, Kurian S, Suseela K V, Sagila S G, Ahmed SM, Gupta YK. **Antimicrobial stewardship programme – from policies to practices: A survey of antimicrobial stewardship programme practices from 25 centres in India.** *J Acad Clin Microbiol* 2019;21:4-9.
4. Das P, Jana B, Dhar K, Goel G, Bhattacharya S, Chandy M. **Relative potency of different generic brands of meropenem, colistin and fosfomycin: Implications for antimicrobial therapy and antimicrobial formulary.** *Indian J Med Microbiol.* 2019 Jan-Mar;37(1):95-98. doi: 10.4103/ijmm.
5. Ravi N, Laha A, Hmar L, Chatterjee S, Goswami J, Goel G, Dhar K, Ghosh T, Chatterji S, Datta SS, Bhattacharya S. **Exploring the prescribing behaviours and the mind of antibiotic prescribers is critical for a successful antibiotic stewardship programme: Results of a survey from Eastern India.** *Indian J Med Microbiol* 2017;35: 299-301.
6. Das P, Mahto R, Goel G, Chandy M, Bhattacharya S. **Relative potency of different generic brands of Piperacillin-Tazobactam: Implications for public health.** *J Infect Public Health.* 2017 Nov - Dec;10(6):901-902.
7. Bhattacharya S. **Economic considerations for an antimicrobial policy for patients with neutropenic fever in resource limited settings.** *Journal of the Vivekananda Institute of Medical Sciences* 2012;35(1): 12-25. (Review article)

Others:

1. Bhattacharya S, Saha V. **How to write a research grant proposal.** *Indian J Med Microbiol.* 2023 Sep 29;100482. doi: 10.1016/j.ijmmb.2023.100482.

2. Bhattacharjee S, Bhattacharya S. **Determining the feasibility of constructing a real-time polymerase chain reaction instrument locally: The cost of intellectual property rights and research and development.** *J Acad Clin Microbiol* 2021;23:18-23.
3. Javed R, Roychowdhury M, Bhawe S, Nag A3, Kumar J, Radhakrishnan V, Bhattacharya S, Mishra DK, Ghara N, Reghu RS, Nair R, Chandy M. **Impact of COVID-19 on peripheral stem cell collection and preservation at a hematopoietic cell transplant center in India: Experience 2020.** *Blood Cell Therapy- the official journal of APBMT.* 2021; 4 (2): 84- 87.
4. Goswami J, Sarkar A, Mukherjee S, Ghosh PS, Pal AR, Barman SM, Banerjee SS, Nandi R, Bhattacharyya S. **COVID-19 pandemic and preparedness of anesthesia team in a stand-alone cancer centre in Eastern India.** *J Anaesthesiol Clin Pharmacol.* 2021 Apr-Jun;37(2):284-289. doi: 10.4103/joacp.JOACP_454_20.
5. Basu D, Basu S, Radhakrishnan VS, Bhattacharya S, Chakraborty S, Sinha S, Chandy M. **Comparison of Quality and Efficacy of Apheresis Platelets Stored in Platelet Additive Solution Vis a Vis Plasma.** *Indian J Hematol Blood Transfus.* 2021 Oct;37(4):648-657.
6. Das P, Dadwal R, Radhakrishnan v, Parihar m, Bhattacharya s, Mishra DK, Chandy M. **Comparison of four high throughput sequencing platforms in a medical laboratory for gut microbiome research.** *Indian J. Anim. Hlth.* (2020), 59(2)-Special Issue: 89-99. DOI: 10.36062/ijah.59.2SPL.2020.89-99 (Review article)
7. Bhattacharya S. **The Social Impact of the COVID-19 Pandemic,”** ORF Issue Brief No. 406, 2020, Observer Research Foundation. (Review Article)
8. Bhattacharya S. **What India might consider doing to manage COVID and post- COVID situation.** *KIMS Journal.* 2020; 7 (5): 17.
9. Datta SS, Mukherjee A, Ghose S, Bhattacharya S, Gyawali B. **Addressing the Mental Health Challenges of Cancer Care Workers in LMICs During the Time of the COVID-19 Pandemic.** *JCO Glob Oncol.* 2020 Oct;6:1490-1493. doi: 10.1200/GO.20.00470. PMID: 33017180; PMCID: PMC7605381. (Commentary)
10. Mukherjee S, Das S, Mukherjee S, Ghosh PS, Bhattacharya S. **Arterial blood gas as a prognostic indicator in patients with sepsis.** *Indian J Med Microbiol.* 2020 Jul-Dec;38(3 & 4):457-460. doi: 10.4103/ijmm.IJMM_19_478. PMID: 33154263. (Brief communication)
11. Bhattacharya S. **Positive aspects of the COVID-19 pandemic.** *J Acad Clin Microbiol* 2020;22:2-4.
12. Ghose S, Radhakrishnan V and Bhattacharya S (2019) **Ethics of cancer care: beyond biology and medicine.** *ecancer* 2019, 13:911. <https://doi.org/10.3332/ecancer.2019.911>

13. Das A, Mitra S, Ghosh D, Modi SK, Roy P, Das J, Bhattacharya S, Krishnan S, Das A, Bhattacharyya A. **Vanishing Bile Duct Syndrome Following Cytomegalovirus Infection in a Child With Hodgkin Lymphoma.** J Pediatr Hematol Oncol. 2018 Jan;40(1):83-84.
14. Collett S, Samarin I, Bhalchandra R, Soundaranayagam JR, Garai S, Chandy M, Bhattacharya S. **Water usage in a multi-speciality hospital and its effective management.** J Acad Clin Microbiol 2016;18:135-7. (Short Communication)
15. Bhattacharya S. **Clinical Microbiology: should microbiology be a clinical or laboratory specialty?** Indian J Pathol Microbiol 2010;53:217-221 (Review article) PMID: 20551520
16. Bhattacharya S and Mondal AS. **Clinical microbiology in the intensive care unit: strategic and operational characteristics.** Indian Journal of Medical Microbiology 2010;28:5-10. (Review article)
17. Bhattacharya S. **Out-of hours training and banding issues in Microbiology and Virology: using solid geometry to illustrate a simple point.** Bulletin of the Royal College of Pathologists Oct 2009;(148):327. (Letter)
18. Bhattacharya S. **Laboratory to clinical Microbiology: are we ready for a transition?** Indian J Med Microbiol 2009; 27: 97-99. (Guest Editorial) PMID: 19384029
19. Bhattacharya S. **Blood culture in India: a proposal for a national programme for early detection of sepsis.** Indian J Med Microbiol 2005; 23: 220-226. (Special article) PMID: 16327116.
20. Bhattacharya S, Parija SC. **Reporting trend of infectious diseases through case reports and brief reports published in Indian Pediatrics.** Indian Pediatrics 2002; 39(11): 1071-3. (Letter) PMID: 12466589.

Book chapters/ Monographs:

1. Gon et al. **Clean Briefing Paper: Research priorities for healthcare cleaning in resource-limited settings.** UK Public Health Rapid Support Team, UK Health Security Agency/LSHTM, London, UK. April, 2023. https://media.tghn.org/medialibrary/2023/06/11730_LSHTM_CleanBriefing_PDF_FIN_AL_07042023.doc.pdf (Dr. Sanjay Bhattacharya was part of the CLEAN Group)
2. George, B & Bhattacharya, S. (2021). **Infections in Hematopoietic Stem Cell Transplantation (HSCT) Patients.** 10.1007/978-3-319-64938-2_7-1. In the book: Chandy M et al. **Contemporary Bone Marrow Transplantation.** (Book Chapter)
3. **NATIONAL GUIDELINES FOR INFECTION PREVENTION AND CONTROL IN HEALTHCARE FACILITIES.** National Centre for Disease Control, Directorate General

of Health Services. Ministry of Health and Family Welfare, Government of India. January 2020. Dr. Sanjay Bhattacharya of Tata Medical Center, Kolkata was one of the contributors and reviewers.

<http://www.mohfw.gov.in/National%20Guidelines%20for%20IPC%20in%20HCF%20-%20final%281%29.pdf>

4. **TECHNICAL CONSULTATION ON IN VITRO DIAGNOSTICS FOR AMR.** 27–28 March 2019, WHO headquarters, Geneva. Meeting report. WHO/MVP/EMP/IAU/2019.08. Dr. Sanjay Bhattacharya was a participant.
5. Bhattacharya S. Antibiotic **Resistance. Dearth of Data. Down to Earth.** Centre for Science and Environment. New Delhi. ISBN 978-81-941339- 2-6. Pages 122- 124.
6. Ghosh A., Bhattacharya S. (2020) **Fungal Outbreak Investigations.** In: Chakrabarti A. (eds) Clinical Practice of Medical Mycology in Asia. Springer, Singapore. 2019. DOI https://doi.org/10.1007/978-981-13-9459-1_14. Print ISBN 978-981-13-9458-4. Online ISBN 978-981-13-9459-1
7. **Standard Operating Procedures. Bacteriology. Antimicrobial Resistance Surveillance and Research Network 2nd Edition, 2019.** Indian Council of Medical Research (ICMR), New Delhi.
https://main.icmr.nic.in/sites/default/files/guidelines/Bacteriology_SOP_2nd_Ed_2019.pdf
8. Chandy M and Bhattacharya S. **Prophylaxis and treatment in Hematopoietic Stem Cell Transplantation (HSCT). Infections in Immunocompromised Host.** In: **Treatment Guidelines for Antimicrobial Use in Common Syndromes. Indian Council of Medical Research 2019. New Delhi.** 2nd Edition. Page 126 to 132.
https://www.icmr.nic.in/sites/default/files/guidelines/Treatment_Guidelines_2019_Final.pdf
9. **Implementation manual to prevent and control the spread of carbapenem-resistant organisms at the national and health care facility level.** Interim practical manual supporting implementation of the Guidelines for the prevention and control of carbapenem-resistant Enterobacteriaceae, Acinetobacter baumannii and Pseudomonas aeruginosa in health care facilities. WHO, 2019.
<https://apps.who.int/iris/handle/10665/312226>
10. Bhattacharya S, Das S, Dhar K, Roy A. **When to Suspect and How to Detect Carbapenemase Production? A Review.** Book title “**Critical Care Update 2019**”. Chapter 32. Indian Society of Critical Care Medicine. Jaypee Brothers Medical Publishers, New Delhi. Pages 155-160.

11. Bhattacharya S, Dhar K, Ghosh T, Das S. **Utility of Bacterial Surveillance Culture in the Intensive Care Unit for Choosing Empirical Antibiotic Therapy** for the book title “**Critical Care Update 2018**”. Editors: Todi SK, Zirpe K, Kulkarni AP, Mehta Y. Chapter 35. Indian Society of Critical Care Medicine. Jaypee Brothers Medical Publishers, New Delhi. Pages 167-170.
12. Chandy M, Bhattacharya S, Chawla T. **Antimicrobial Guidelines for prophylaxis and treatment of Infections in Bone Marrow Transplant settings**. In: ICMR guideline on: Treatment Guidelines for Antimicrobial Use in Common Syndromes. Indian Council of Medical Research, Department of Health Research, New Delhi, India, 2017. Pages 20-32. <http://www.icmr.nic.in/guidelines/treatment%20guidelines%20for%20antimicrobial.pdf>
13. Bhattacharjee S, Bhattacharya S, Dutta SS. **Effects of Intellectual Property Rights on Innovation and Development**. Chapter 4. In: Roy K and Dutta SS (editors). Ethical Practice in Medicine: Contemporary Commentaries. Kolkata Network for Promotion of Ethics in Medicine. 1st edition 2016, Kolkata, India. Pp 34-52.
14. Bhattacharya S, Bhalchandra R, Goel G, Hmar L. **Microbiological Assessment before Surgical Intervention. In: Microbiology for Surgical Infections. Diagnosis, Prognosis, Treatment**. Editors, Kon K and Rai M. Elsevier. London, 2014. Pp 19-40.
15. Bhattacharya S. **Sterility testing**. In; Hospital Infection Control. Clinical Guidelines. Editors. Saini S and Saini R. Paras Medical Publisher, Hyderabad. 2012. Pp 10-17.
16. Participated as a **Working Group member of the WHO Priority Pathogens List (PPL)**. Publication: **Prioritization of pathogens to guide discovery, research and development of new antibiotics for drug resistant bacterial infections, including tuberculosis**. WHO reference number: WHO/EMP/IAU/2017.12. Publication date: September 2017. Pages 88. Accessible at: http://www.who.int/medicines/areas/rational_use/prioritization-of-pathogens/en/ (last accessed on 20th October 2017)

Conference Abstracts:

1. Bhattacharya, S., Das, P., Goel, G., Mukherjee, S., Ghosh, P., Singh, R., . . . Chakrabarti, A. (2020). **Candida auris Infection Among Patients With Cancer in an Oncology Center in Eastern India. Infection Control & Hospital Epidemiology**, 41(S1), S146-S147. doi:10.1017/ice.2020.664 (Conference Abstract)
2. Mathur, P., Malpiedi, P., Walia, K., Malhotra, R., Srikantiah, P., Katoch, O., . . . Guleria, R. (2020). **Surveillance of Healthcare-Associated Bloodstream and Urinary**

Tract Infections in a National Level Network of Indian Hospitals. Infection Control & Hospital Epidemiology, 41(S1), S398-S399. doi:10.1017/ice.2020.1043 (Conference Abstract)

3. Bhattacharya S. **Setting up a Molecular Virology Laboratory**. TRICON, Kozhicode, Govt Medical College, 05 August 2017.
4. Chandy M, Bhattacharya S. **Viral infections in patients with hematopoietic stem cell transplantation: experience from an oncology center in eastern India**. CMC Vellore, National Virology Conference, 22 July 2017.
5. Bhattacharya S, Bhattacharyya A, Goel G, Das P, Chandy M. **Effect of standard precautions without patient isolation on bacteraemia rates among pediatric cancer patients in a setting with high prevalence of multi-drug resistant organisms**. ESPID 2017. Abstract number: ED08. 25th May 2017.
6. Das P, Bhattacharya S, Goel G, Dhar K, Chandy M. **A comparative evaluation of relative potency of different brands of fosfomycin available in india by agar diffusion method: implications for clinical management**. ESPID 2017. Abstract number: AE02b . 24th May 2017.
7. Bhattacharya S, Bhattacharyya A, Goel G, Das A, Chandy M. **Epidemiology of colistin resistant Klebsiella infections among pediatric oncology and hematopoietic stem cell transplantation patients in eastern India**. ESPID 2017. Oral presentation. 25th May 2017.
8. Harishankar A, Banerjee S, Mishra DK, Bhattacharya S, Chandy M. **Correlation Between Human Leukocyte Antigen And Cytomegalovirus Reactivation In Stem Cell Transplant Recipients- Data From A Tertiary Cancer Centre In Eastern India**. 65th Annual Conference of IAPM and Annual Conference OF IAP-ID. 01-04 Dec 2016, BM Birla Auditorium, Jaipur, India. Oral Presentation: OP80.
7. Das P, Chandy M, Bhattacharya S. **Application of 16S rDNA based sequencing for identification of unidentified ambiguous bacteria: Experience from a cancer center in eastern India**. Abstract number: MR 001. Oral presentation. Molecular/Rapid techniques and Immunology. MICRCON 2016, PGIMER, Chandigarh, India. 40th Annual Conference of the Indian Association of Medical Microbiologists. 23-27th Nov 2016.
8. Goel G, Chandy M, Roy MK, Gupta S, Mullick S, Sengupta K, Bhattacharya S. **Emergence of Colistin Resistant *Klebsiella pneumoniae* in an Oncology Center in Eastern India. Abstract ID: 4994**. Federation of Infection Societies, UK; 6-8 November, EICC, Edinburg, UK.
9. Bhattacharyya A, Das A, Gogoi M, Krishnan S, Harishankar A, Goel G, Bhalachandra R, Saha V, Bhattacharya S. **Spectrum of respiratory viral infections in children with**

cancers: experience from a tertiary cancer centre in eastern India. Abstracts / Pediatric Hematology Oncology Journal 1 (2016) S1eS33. TM_SC-1_V1.13.

10. Chakraborti B, Ghosh A, Bhaumik J, Mukhopadhyay A, Bhattacharya S. **INFECTION PROFILE AMONG PATIENTS WITH ENDOMETROID CARCINOMA IN AN ONCOLOGY CENTRE IN EASTERN INDIA.** 4th Biennial Meeting of Asian Society of Gynecologic Oncology (ASGO 2015). 12-14th November 2015, Seoul, South Korea. Poster no: OR_601, Category: Endometrium.
11. Anusha H, Bhalchandra R, Das P, Bhattacharya S, Chawla Sarkar M, Chandy M, Bhattacharyya A. **Epidemiology of Respiratory Viral Infections at a tertiary cancer center in Eastern India.** Microcon, 2015. JIPMER, Puducherry. Virology-I, 225. 25-29th Nov 2015. (Oral presentation)
12. Sahu M, Sengupta K, Goel G, Bhattacharya S. **Are MIC Values Important in Routine Microbiology/ Bacteriology Reports? Results Of a Survey From a Cancer Hospital in Eastern India.** Microcon, 2015. JIPMER, Puducherry. AMR-II, 236. 25-29th Nov 2015. (Oral presentation)
13. Das P, Bhattacharya S, Harishankar A, & Chandy M. (2015, October). **Standardization of a two step real-time PCR based method for species specific detection of medically important *Aspergillus* sp.** In MYCOSES (Vol. 58, pp. 189-189). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY-BLACKWELL.
14. Bhalchandra R, Goel G, Hmar L, Sengupta K, Bhattacharya S. **PROFILE OF INFECTIONS CAUSED BY *Acinetobacter* spp.** CIDSCON 2015, New Delhi, 21-23 August 2015.
15. Bhattacharya S, GoelG, Bhaumik J, Chandy M. **EPIDEMIOLOGY OF ANTIMICROBIAL RESISTANCE IN AN ONCOLOGY CENTRE IN EASTERN INDIA.** Federation of Infection Societies, UK: Harrogate 24-26 Nov 2014. FIS 2014-Abstract No. 0229; Poster no: 0043-Category: Public Health and Epidemiology.
16. Das P, Harishankar A, Chandy M, Bhattacharya S. **Standardization of efficient method for DNA extraction from *Candida* sp. in a medical laboratory setup.** International Conference of Fungal Infections Study Forum (FISF) MYCOCON 14th-16th November, 2014, Kolkata, India.
17. Chakrapani A, Chandy M, Bhattacharya S, Mishra D. **MDRO infection the" major hurdle to acute myeloid leukemia induction therapy" experience of a tertiary care comprehensive cancer center from India.** HAEMATOLOGICA 2014; 99, 307-307.
18. Pandey P, Anusha H, Chandy M, Bhattacharya S. **Insight into DNA extraction of *Candida* sp: Comparison of an automated & a manual system.** SIHAM 2014, Coimbatore, India. Jan 10-12, 2014. (Abstract number; OP-11, page 34) (selected for European Confederation of Medical Mycology Travel award)

19. Radhakrishnan VS, Chandy, M, Bhattacharya S, et al. **Microbiology in Patients Undergoing Stem Cell Transplantation in the First Year of a Tertiary Care Comprehensive Cancer Centre From India.** Poster 316. BMT Tandem Meetings. Salt Lake City, Utah (USA), Feb 13-17, 2013.
<https://bmt.confex.com/tandem/2013/webprogram/Paper2001.html>
20. Radhakrishnan VS, Goel G, Das D, Ravichandran S, Khushoo V, Bhave SJ, Chakrapani A, Nair R, Bhattacharya S, Chandy M. **Prevalence of antibiotic resistant strains in fecal surveillance cultures of patients from a new tertiary care cancer center in eastern part of India.** JOURNAL OF CLINICAL ONCOLOGY 2013;31 (15).

Research grants received:

1. **DBT grant: Application of real-time PCR for the diagnosis of invasive candidiasis and aspergillosis in immuno-compromised patients in an oncology center.** Department of Biotechnology, India. No.BT/PR4884/MED/29/394/2012-Rs. 61,47,400). Investigators: Bhattacharya S, Chandy M, Chatterjee S, Bhattacharyya A, Roy P, Sen S.
2. **FISF grant: Invasive mould infections in Indian ICUs – descriptive epidemiology, management and outcome (FISF multi-centric study).** IRB reference number: EC/PHARMA/16/16. Rs. 3,12,000
3. **ICMR grant: Regional Centre for Antimicrobial Resistance Surveillance Network.** Indian Council of Medical Research. Ref no: AMR/RC/63/2014-ECD-II (Rs. Rs.20,09,280/-for year 1)
4. **CDC grant: Capacity Building and Strengthening of Hospital Infection Control to detect and prevent antimicrobial resistance in India.**
4. **ICMR grant: Expansion of antimicrobial stewardship program (AMSP) and infection prevention & control program (IPC) of ICMR in secondary care hospitals**

Co-investigator in research project:

1. **DBT grant: Pharmacokinetics of voriconazole in neutropenic patients with hematologic malignancy. Effect of cytochrome P450 2C19 polymorphisms on drug metabolism in a population from eastern India.** Ref no: BT/PR8367/MED/12/700/2015. Rs. 97,94,800. Chakraborty S et al.
2. **DBT grant: Integrated Cervical cancer prevention and treatment stratification study: systems medicine cluster approach (PI: Dr. Mammen Chandy)**
3. **ICMR grant: Antimicrobial Stewardship Program (AMSP)- ICMR project. PI> Dr. Sudipta Mukherjee**

Reviewed of research papers for Scientific Journals

- **British Medical Journal**
- **British Journal of Ophthalmology**
- **Post-graduate Medical Journal**
- **Quarterly Journal of Medicine**

- **Indian Journal of Pathology and Microbiology**
- **Indian Journal of Medical Microbiology**

Awards:

- Tim Weller Prize for best oral presentation at West Midlands Microbiology meeting, Stratford upon Avon, 2008;
- JIPMER Microbiology alumni medal for MD Microbiology degree examination of Pondicherry University held during March 2000;
- Uday-Somnath-Ashoke memorial medal for securing highest marks in 2nd professional MBBS examinations 1992 conducted by University of North Bengal;
- Dr. Amulya Kumar Ghosh memorial medal for securing highest marks in Pathology examination 1992 conducted by University of North Bengal
- University Medal from University of North Bengal for securing second highest marks in MBBS examinations 1994
- Local, regional and East-zonal prize all India Paediatric Quiz organized by the Indian Academy of Paediatrics-1993-1994;

Extra- curricular activities

- Creative writing. Book published: **KOLKATA DREAMS**. A collection of short stories, translations and essays. INSC International Publishers. Chikkamagaluru, Karnataka, India, 2021.

Vision for the future:

- Contribute towards the development of India
- Support family and friends so that they can live a happy and productive life and reach their true potential

Declaration:

I declare that the above information is true to the best of my knowledge and understanding.

Dr. Sanjay Bhattacharya

Last updated: 14th December 2024