

MAAER MIT Pune's MIMER Medical College & Dr. BSTR Hospital, Talegaon (D)
Department of Microbiology

List of Research Projects (2016-2026)

1. Study of asymptomatic bacteriuria in type-2 diabetes mellitus patients
2. A study of organism causing surgical site infection & their antimicrobial susceptibility in rural teaching hospital
3. In vitro activity of colistin against multidrug resistant Gram negative bacilli (MDRGNB) isolated from various clinical specimens
4. Seroprevalence of HBV infection in pregnant women attending teaching rural hospital
5. Study Of Non fermenters From Various Clinical Specimens In Rural Teaching Hospital.
6. Microorganism in Conjunctiva Sac of Pre-operative Cataract Patients
7. Longitudinal clinico-serological analysis of anti-nucleocapsid and anti-receptor binding domain of spike protein antibodies against SARS-CoV-2.
8. Prevalence of Surgical Site Infections (SSIs) among patients undergoing surgery in a rural setting,
9. Prevalence of Extended spectrum beta lactamase and carbapenamase producing gram negative bacteria and their susceptibility to antibiotics, at a rural tertiary care hospital.
10. A cross-sectional study of ceftazidime-avibactam susceptibility of carbapenem-resistant organisms and clinical attributes, at a rural hospital of Western Maharashtra.
11. From Classrooms To Communities: Evaluating Teaching Methods to Enhance Awareness Among High School Students to Combat Antimicrobial Resistance
12. Impact of Targeted Education and Training on Hand Hygiene Practices in School Going Students
13. Community Awareness of the Red Line Campaign and Antibiotic Use: A Cross-Sectional Study Among Adults in Western Maharashtra, India.
14. Engagement and perception of Kahoot!, a web-based quiz game, among undergraduate medical students: A cross-sectional study
15. Knowledge, Attitude, and Practices on Antimicrobial Use and Resistance Among Prospective Healthcare Professionals in Maharashtra, India.

16. Evaluating Effectiveness of an Educational Program on Knowledge, Attitude, and Practices Regarding Antibiotics and Antimicrobial Resistance Among College Students in Western Maharashtra.
17. Improving Patient Safety: A Cross-sectional Study on Knowledge, Attitudes, and Hand Hygiene Practices Among Healthcare Workers of Rural Tertiary Care Centre in Maharashtra.
18. A cross-sectional study of ceftazidime-avibactam susceptibility of carbapenem-resistant organisms and clinical attributes, at a rural hospital of Western Maharashtra.
19. A cross-sectional study on Knowledge and Attitude about Biomedical waste Management among medical students in a tertiary care hospital
20. Prevalence of Biofilm-Forming Bacteria Among Clinical Isolates and Their Antibiotic Resistance Patterns.
21. Nanorobots for Biofilm Removal and Antimicrobial Effect
22. Prevalence and antimicrobial susceptibility pattern of Metallo- β - lactamase producing Gram-Negative Bacilli in Clinical Isolates at a Rural Teaching Hospital.
23. Attributes of an effective medical teacher: a students' perspective
24. Antimicrobial resistance trends in *Enterococcus faecium*, *Staphylococcus aureus*, *Klebsiella pneumoniae*, *Acinetobacter baumannii*, *Pseudomonas aeruginosa* and *Enterobacter species* (ESKAPE pathogens) at a rural tertiary care hospital of Western Maharashtra, India: A retrospective study.
25. Spectrum and antimicrobial resistance profile of bacterial pathogens from urine, pus, and blood specimens: A retrospective study at a tertiary care centre.
26. Comparison of Kahoot! A web based quiz game and traditional method of assessment in Microbiology among medical students
27. Prevalence of Methicillin resistance *Staphylococcus aureus* in various clinical samples in a tertiary care hospital: A retrospective study
28. Antimicrobial Resistance pattern of *Escherichia Coli* causing urinary tract infections in a tertiary care hospital: Across sectional study