



## Dr. Namita Jaggi

Chairperson, Lab Services and Infection Control  
Chief, Education & Research

### BRIEF PROFILE

Dr. Namita Jaggi (MBBS, MD, MBA) is an alumnus of the prestigious Maulana Azad Medical College and has over 30 years of experience in microbiology, antimicrobial resistance (AMR), device associated infections, patient safety, Infection control and environmental surveillance of multidrug resistant (MDR) organisms. Her research focus is mainly on the molecular mechanisms and epidemiology of AMR, gut microbiome and its impact on AMR, rapid diagnostics in infectious diseases and host microbe interactions. A recent deliverable from her research has been the development of an indigenous and cost-effective multiplex PCR based diagnostic assay (Carbapenem resistance Gene Screening) that has been applied clinically for early detection of MDR Gram negative bacteria for which she received Society for Healthcare Epidemiology of Americas (SHEA) Alumni Award 2022.

Dr Namita Jaggi has been instrumental in the start of diagnostic lab and infection control since the commencement of hospital in 2007 and now the establishment of the Artemis Education and Research Foundation (AERF) and the research unit at Artemis Hospital under the guidance of the management. As Chief of Education and Research, she is currently actively involved in translational research guiding several DNB and PhD thesis, notable among them being molecular mechanisms of colistin resistance, host virus interaction for dengue, microbial etiology of respiratory and urinary tract infections, disease spectrum of chikungunya in children, correlation of diagnostic tests in Covid-19 disease etc.

Dr Jaggi has worked in collaboration with national and international experts in projects for World Health Organization (WHO), Global Point Prevalence Survey (PPS) project, Center for Disease Dynamics, Economics & Policy (CDDEP), Hospital Infection Society- India (HISI), WINSAR (World Health Organization- Indian Association of Medical Microbiologists Network for Surveillance in Antimicrobial resistance), ICMR (Antimicrobial Resistance Surveillance and Research Initiative by Indian Council of Medical Research) etc on AMR and Infectious diseases. She has delivered numerous talks and chaired several sessions at major national and international conferences and has widely cited publications in high impact peer reviewed journals. She has authored a book on Microbiology and has contributed chapters in books published by the Indian Medical Association (IMA) and Consortium of Accredited Healthcare Organizations (CAHO) on the judicious use of antibiotics and central line associated blood stream infections. She has been the only Indian in a team developing the APSIC (Asia Pacific Society of Infection control) guidelines for Central Line Associated Blood Stream Infections (CLABSI) and Catheter Associated Urinary Tract Infections (CAUTI) guidelines. She is a Joint commission international surveyor and also is an assessor for NABL, (National accreditation board for testing and calibration laboratories and NABH (National accreditation board for hospitals and healthcare providers)

## RESEARCH PROJECTS

### a. Extramural Project

- i. Protective efficacy of Anu Taila Nasya in Healthcare professionals against SARS-CoV-2 (COVID-19) Infection: A Double-Blind Placebo Controlled Clinical Trial. Sanctioned Amount- 10 lakhs. All India Institute of Ayurveda (2021-2022)
- ii. Application of a cost effective, indigenous molecular diagnostic assay for early and accurate detection of pathogenic bacteria and their resistance determinants in Sepsis to promote Antimicrobial Stewardship in an Indian tertiary care hospital. SHEA Alumni Award (2022)

### b. Intramural Projects

- a. Prevalence of Metallo- $\beta$ -lactamase producing Gram-negative bacilli in the community and hospital settings and their clonal relationship with healthcare associated infections in a tertiary care centre in northern India.
- b. Molecular Epidemiology and Genetic Diversity of *Orientia tsutsugamushi* from Patients with Scrub Typhus in a tertiary care hospital of Northern India
- c. Molecular characterization of Polymyxin resistant Gram negative clinical isolates in Tertiary care hospitals in Northern India
- d. Quantitative comparison of host response to circulating seasonal viruses in severe and non-severe patients from a North Indian tertiary care hospital
- e. To study the changes in diversity and abundance of gut microbiome in healthy individuals and intensive care patients and the effects of antibiotic exposure on the resistome
- f. Deciphering the association between *Pseudomonas* infections and healthcare environment through genetic characterization

## AWARDS

Under Dr Namita's leadership, Artemis Hospital was awarded the WHO Asia Pacific Hand Hygiene excellence award 2010-2011. She has also been the recipient of APIC- Hero of infection prevention 2012; SHEA International ambassador 2015; 10th Aadhi-Aabadi Women Achievers Awards 2018; and SHEA IAP Alumni Research Grant 2022.

### Professional Engagements

- Executive member for APSIC (Asia Pacific Society for Infection Control)
- Executive member for HISI (Hospital Infection Society, India)
- Country secretary for INICC (International Nosocomial Infection Control Consortium)
- Reviewer for Journal of Patient Safety and Infection Control

### Contact Information

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