

Description of past scientific research projects completed and research experience

- Brief overview of PhD Research work:** The thesis title was Preclinical Pharmacological Evaluation of Metal and Metal Oxide Nanoparticles. It was based on evaluating the safety and efficacy of metal and metal oxide nanoparticles understanding the Pharmacokinetics and the Pharmacodynamics using healthy and diseased experimental animal models. For example, related to obstetrical conditions, a symptomatic animal model of Pre-eclampsia / Eclampsia was used to evaluate the safety and efficacy of Magnesium oxide nanoparticles and to evaluate their neuroprotective action. Zinc Oxide nanoparticles were tested for their Antidiabetic, and Anti-cholesterolemic activity. Reproductive and developmental toxicity of metal and metal oxide nanoparticles was evaluated using the Chick Embryo Model System.
- Research work as a Young Investigator under PRERNA, India Fellowship**

Research Project	Role in Study	Status	Funding
Quadrivalent HPV vaccine Phase III clinical trial (SII – QHPV)	Sub-investigator	Completed	Serum Institute of India
RSV Mat 009 maternal influenza vaccine clinical trial	Sub-investigator	Completed	
ARISE Network study to assess the impact of digital intervention	Co-investigator	Completed	Harvard T Chan Institute of Public Health
Temporary Childbirth Migration RAP grant	Co-investigator	Completed	Extramural, University of California, San Francisco
A systematic review on maternal acceptability of influenza vaccine in LMIC	Principal Investigator	Completed	Intramural PRERNA platform activity
COVID-19 Vaccine hesitancy among adolescents and pregnant women in Semi-urban Areas: Qualitative Research	Co-investigator	Completed	Extramural BIRAC
Health Demographic Surveillance System, Vadu	Researcher	Completed	Intramural KEMHRC, Pune
Proposal writing: Implementation research on the effective utilization of interventions for maternal anemia	Co-investigator	Completed	Intramural PRERNA platform activity

- **Research endeavors in present appointment:** As an Assistant Professor, in the Department of Obstetrics & Gynecology, the job profile is primarily clinical and academic. I am involved in diagnosing and treating antenatal patients and patients presented with gynecological conditions, UG / PG teaching. I am also selected as a Research Coordinator/ Research Champion of the department by the college. I am involved in guiding UG and PG students in their research projects and dissertations. I am the primary resource person for writing Research Proposals and Expression of Interest/Letter of Intent for various Research Schemes by ICMR, DBT, and DST. I am actively involved in clinical research, clinical trials, and public health research in the department.

As a success story, our LOI for conducting Systematic Review and Meta-Analysis is selected for funding by ICMR. The topic is Diagnostic Test Accuracy for the Vaginal Discharge of bacterial aetiology.