

## Curriculum Vitae

**Name:** Dr. Raut Shrish Vijaykumar

**Qualification:** DNB (Obstetrics & Gynecology), M.B.B.S.

M.Sc., Ph.D. (Basic-Medical Science)

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### Educational Details:

<b>Educational Qualification</b>	<b>Board/ University (Institute)</b>	<b>Year of passing</b>	<b>Percentage</b>	<b>Division</b>
Ph.D. Basic Medical Science (Pharmaceutical Medicine)	School of Basic Medical Sciences, Savitribai Phule Pune University, Pune	December 2021		Not applicable
D.N.B. (Obstetrics & Gynecology)	National Board of Examination, New Delhi	December 2014		Not applicable
M.Sc. (Pharmaceutical medicine)	Maharashtra University of Health Sciences, Nasik, Maharashtra	2009	67.3	First class
M.B.B.S.	Maharashtra University of Health Sciences, Nasik, Maharashtra	2007	61.63	First class
12 <sup>th</sup> Standard	Maharashtra Board	2001	78.00	Distinction
10 <sup>th</sup> Standard	Maharashtra Board	1999	80.00	Distinction

Summary of PhD 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. Reproductive and developmental toxicity of

Metal and metal Oxide nanoparticles were evaluated using the Chick Embryo Model.

### Work Experience:

Currently, working as an Assistant Professor, in the Department of Obstetrics & Gynecology at Bharati Vidyapeeth deemed to be University Medical College, Pune (Since May 2023). My current job profile is primarily clinical and academic where I am involved in diagnosing and treating antenatal patients and patients presented with gynecological conditions, UG / PG teaching. I am also contributing as a Research Co-ordinator for the department by guiding UG and PG students in their dissertation and research projects. I am involved in clinical research, clinical trials, and public health research in the maternal and child health domain.

### Experience

- Research:
  - KEM Hospital & Research Centre, Pune from January 2020 to April 2023 as a Young Investigator under the **PRERNA** (*Platform for Research Excellence Related to National Aims*) India platform funded by the Bill & Melinda Gates Foundation, specifically focusing on Maternal Child Health.
  - Scientist B (Medical) in **National Rotavirus Surveillance Network** in a project-based temporary position from March 2013 to June 2014.
- Clinical:
  - Senior Resident (from November 2016 to June 2019)
  - Working as Asst. Gynecologist at Dr. Patankar Nursing Home, Pune from December 2014 to November 2015
  - DNB trainee in Obstetrics & Gynecology at Dr. Patankar Nursing Home, Pune from February 2010 to February 2013.

### Projects undertaken

Research Project	Role in Study	Status	Funding
Systematic Review and Meta-analysis on Diagnostic Accuracy of syndromic approach in patient with vaginal discharge of bacterial origin.	Principal Investigator	Ongoing	ICMR
Systematic Review and Meta-analysis on Severe Maternal Morbidity and Adverse Perinatal Outcome	Principal Investigator	Ongoing	Intramural BVDUMC, Pune

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	Extramural
Temporary Childbirth Migration RAP grant	Co-investigator	Completed	
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	
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

### Workshops and training attended

- **Certificate course in Research to Publication** online course by University of California San Fransisco and British Medical Journal completed in July 2023
- **Workshop on Science Writing** conducted online by Current Science Association completed in June 2022
- Training course in **‘Obstetrics and Gynaecological Ultrasound’** at Nowrosjee Wadia Maternity Hospital, Mumbai in December 2015.
- **‘Training program in Clinical Genetics’** sponsored by Dept. of Health Research, Govt. of India in August – September 2015 at Genetic Research Centre, National Institute of Research in Reproductive Health, Mumbai, ICMR.
- **‘Bioinformatics and its applications in Biomedical Research’** by the National Institute of Research in Reproductive Health, Mumbai (ICMR) in January 2014.
- **Animal tissue Culture** Training course in Sept.2012 conducted by Venture Centre, National

Chemical Laboratory, Pune

- ‘**Basics & Ethics of Handling Experimental Animals for Pharmacological & Toxicological studies**’, training course conducted by Dept. of Pharmacology & Toxicology Bombay Veterinary College, Mumbai in June 2009.

#### Conference / Science meeting organized

- Lead organizer for the **Regional Young Investigators’ Meeting, (RYIM) Pune** on 16<sup>th</sup> & 17<sup>th</sup> February 2024 at Bharati Vidyapeeth Deemed to be University Medical College, Pune. The RYIM, Pune was organized with the theme of ‘*Opportunities and Challenges for the Young Investigators in Interdisciplinary Medical Research*’, in the context of Basic Sciences, Clinical Sciences, and Public Health Research. RYIM, Pune aimed to provide a platform, establish a regional network, and identify opportunities and challenges for young investigators and students involved in biomedical/health research.

RYIM, Pune was funded through a competitive scheme by India Bioscience, NCBS Bengaluru (supported by the Department of Biotechnology, Govt. of India).

- PRERNA, India Science Meeting on *Advances and Research Priorities in Iron Deficiency Anemia in Pregnancy and Childhood* in February 2022 at KEM Hospital Research Centre, Pune

#### Conference Presentations:

Name	Organized by	Dates	Presentation	Topic	Prize
Emerging Trends in Nanomaterials and their applications	Dept. of Medical Physics, DR. D. Y. Patil University	2 <sup>nd</sup> – 3 <sup>rd</sup> June, 2017	Oral	Reproductive and Developmental toxicity testing of Metal and Metal oxide nanoparticles using Chick embryo model system	2 <sup>nd</sup>
International Conference on Nanotechnology for Human Welfare	College of Engineering, Pune	1 <sup>st</sup> – 3 <sup>rd</sup> Feb, 2018	Oral	Effect of Zinc Oxide Nanoparticles on Lipid Profile and its Anti-obesity Activity in Streptozotocin-induced Diabetic Wistar Rats	2 <sup>nd</sup>
Clinical Pharmacology: contributing to global health	South Asian Chapter of American College of Clinical Pharmacology	29 <sup>th</sup> April – 2 <sup>nd</sup> May, 2018	Oral	Haematinic effect of Zinc oxide nanoparticles in Wistar rats	2 <sup>nd</sup>

**Awards and honors:**

- Selected for Short Term Research Studentship (STS) program in 2005 – 06 by ICMR
- Invited for paper presentation at the First National Medical Students Research Conference organized by the Moving Academy of Medicine and Biomedicine in November 2007.
- Invited for a talk at ICMR – NIRRH's Golden Jubilee conference on the Role of Magnesium Oxide nanoparticles in the treatment of pre-eclampsia-induced Wistar rats
- Awarded Dr Shirish Daftary prize for Original Research work in the field of Obstetrics & Gynecology by Pune Obstetrics & Gynecologist's Society December 2022.
- Selected for the Clinician Researcher CROSSTALK immersion program organized by BRIC-THSTI in July 2024. I got a mentorship under Prof. Mathapathi in his lab on Biomaterials. I did learn nanomaterial synthesis, conjugation, doping, drug loading, and drug release using nanomaterials.

**Membership:**

- Conferred **Membership of the National Academy of Medical Sciences**, (MNAMS) New Delhi in the subject of Obstetrics and Gynaecology
- Life member of the **Federation of Obstetrics & Gynaecological Societies of India** (FOGSI)
- Life member of the **Indian Society for Study in Reproduction and Fertility** (ISSRF).
- Life member of the **Indian Medical Association**.
- Associate Life member of the 'South Asian Chapter of the American College of Clinical Pharmacology' (SAC – ACCP).