



MD RESEARCH

# Advanced Research & Methodology Biostatistics Training

## 3 Month Intensive Research Training Program

Master clinical research with top global faculty—learn advanced methodologies, conduct research, and get published in high-impact journals.



**JOIN NOW**



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[www.mdresearch.us](http://www.mdresearch.us)



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# Why Choose Our course?

Learn advanced research methodologies and biostatistics from top faculties in the world

Conduct systematic reviews, meta-analyses,  
and network meta-analyses

Publish in high-impact, PubMed-  
indexed journals worldwide

Gain a Clinical Research Training Certificate to  
enhance academic and professional  
credentials



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# Why learn from us?

Proven Track Record of Success with tons of publication in world's premier journals

**Our students have published in prestigious journals such as:**

- **Journal of Complementary and Alternative Medicine**
- **Journal of Integrative Medicine**
- **BMC Complementary Medicine and Therapies**
- **Complementary Therapies in Medicine**
- **BMC Integrative Medicine**
- **International Journal of Yoga**
- **Frontiers in Medicine**



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## ***Hybrid Learning Model for Maximum Impact***

- 1-hour recorded lecture + 1-hour live one-on-one faculty interaction per session
- Direct mentorship and personalized guidance for each student, handheld to write article, so it can be published at end of each research cycle

## ***From Learning to Publication***

- Participants don't just learn—they conduct fundamental research
- Guaranteed manuscript submission to a PubMed-indexed journal on course completion

## ***Enhancing Institutional Research Capacity***

- Strengthens your institute's research output and international academic recognition
- Equips students with global research standards
- Helps in clinical and academic career





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# Course Structure

## DURATION

**3 Months (12 weeks)**

**13th March – 13th August 2025**

## FORMAT

**Online + Personalized  
Mentorship**

## CERTIFICATION

**This 12-module course provides a  
step-by-step structured  
approach to research  
methodology, statistical  
analysis, and scientific writing.**



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# Modules Include:

## Module 1: Foundations of Research

- Understanding research methods, methodology, and study design
- Formulating hypotheses and research questions
- Differences between qualitative and quantitative research

## Module 2: Research Designs & Clinical Trials

- Detailed exploration of experimental vs. observational study designs
- Understanding randomized controlled trials (RCTs), cohort studies, case-control studies, and cross-sectional studies
- Ethical considerations in research

## Module 3: Exploring Data & Concept of Probability

- Understanding types of data (categorical, continuous, ordinal)
- Data collection, organization, and presentation techniques
- Probability theory, central limit theorem, and standard distribution curve



## **Module 4: Biostatistics Fundamentals & Descriptive Analysis**

- Measures of central tendency (mean, median, mode)
- Descriptive vs. inferential statistics
- Introduction to statistical software (SPSS, R, Python, Statastics)

## **Module 5: Inferential Statistics & Advanced Analytics**

- Hypothesis testing: p-values, confidence intervals
- Survival analysis and Kaplan-Meier curves
- Diagnostic statistics: Sensitivity, specificity, predictive values

## **Module 6: Conducting a Systematic Review**

- Step-by-step methodology for conducting a systematic review
- Database searches (PubMed, Scopus, Cochrane) and screening techniques
- PRISMA guidelines and risk-of-bias assessment





## **Module 7: Introduction to Meta-Analysis**

- Understanding effectsizesand heterogeneityassessment
- Fixed-effect vs. random-effects models
- Introduction to meta-analysis software

## **Module 8: Conducting a Meta-Analysis**

- Data extraction and coding
- Pooling results and subgroup analysis
- Publication bias and funnel plots

## **Module 9: Statistical Interpretation of Meta-Analysis**

- How to interpret forest plots and heterogeneity
- Understanding confidence intervals and risk ratios
- Common errors in meta-analysis interpretation



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## **Module 10: Network Meta-Analysis**

- Introduction to indirect comparisons and mixed treatment comparisons
- Application of network meta-analysis in clinical decision-making

## **Module 11: Research Proposal Writing & Medical Writing**

- Writing a compelling research proposal
- Basics of grant writing and funding opportunities

## **Module 12: Manuscript Preparation & Journal Submission**

- Structuring a high-impact scientific manuscript
- Journal selection, formatting, and submission process
- Responding to reviewer comments effectively

# FACULTY & MENTORS

This course is led by renowned researchers and experienced faculty members with a strong track record of high-impact publications

**Dr. Indranill Basu Ray**

*(Program director)*

**Dr. Dibbendhu Khanra**

**Dr. Manjunath NK**

**Dr. Bhushan Patwardhan**

**Dr. Kashinath G. Metri**

**Dr. Mrithyunjay Rathore**

**Dr. Sanjay S. Phadke**

**Dr. Keith C. Norris**

**Dr. Anindya Mukherjee**

**Dr. Dorairaj Prabhakaran**

**Dr. Paula R. Seffens**

**Dr. Debesh Mallik**

**Dr. Girish Baburao Kulkarni**

**Dr. Rima Dada**

**Dr. Harminder Grewal**

**Dr. Vaishali Deshmukh**

**Dr. Savithri Chandana Veluri**

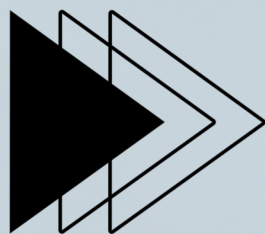
**Dr. Sarita Bajaj**

**Dr. Jayasree Pillarisetti**

**Dr. Pawan Ojha**

**Dr. Shripad Pujari**

**Dr. Harish R. Joshi**







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# BENEFITS

- **Offer world-class research training to students**
- **Enhance institutional academic output with increased publications**
- **Equip scholars with global research skills on par with international researchers**
- **Strengthen reputation as a leading research-oriented institution**



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# **Secure your Residency position with the power of Research!**

## **REGISTER NOW**

**and be part of a community shaping the future of  
health and wellness.**

**More Information**

**Abhishek +91 7838009782**

**Kawana +91 9611442843**



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