

Who should attend?

This workshop is suitable for post-graduate students, faculty members from medical colleges and any other researchers working in the fields of biomedical sciences.

No prior programming knowledge is required

How to register?

Selection of participants will be based on first come first serve basis. The number of seats will be limited to 15 participants. Registration is online through following link or scanning QR code

<https://forms.gle/hj6tcYexrKNjRyRd8>



Registration fee

Registration fees: **INR 2950** (Rs. 2500 + 18% GST)

Inclusive of course materials, computer facility charges, lunch and Certificates. Selected participants will be notified through email by 30 September 2022. Following which payment of registration fees must be made to the account details provided in the email.

Accommodation details

Accommodation at nominal charges can be arranged in AIIMS Bhopal Guest House merely subject to availability.

Organizing Committee



Chief Patron
Prof (Dr) Y K Gupta,
President, AIIMS Bhopal



Patron
Prof (Dr) Ajai Singh,
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Prof (Dr) Rajesh Malik,
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Dean (Research), AIIMS Bhopal



Organising Chairperson
Prof (Dr) Arun M Kokane,
Prof & Heads, CFM, AIIMS Bhopal

Workshop Coordinators & Resource Persons

Dr. Abhijit Pakhare, Faculty
Dr. Ankur Joshi, Faculty
Dr. Revadi G., SR
Dr. Sudir Verma, SR



Contact-

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Workshop on Data Analysis with R for Biomedical Researchers

EVENT NO. REG/AIIMS/BPL/2022/CSWLC/DAWR/013

11-14 Oct 2022



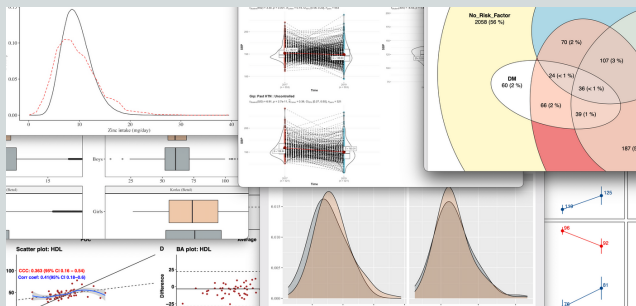
Department of Community &
Family Medicine,
All India Institute of Medical
Sciences, Bhopal

About AIIMS Bhopal

AIIMS Bhopal is one of the apex healthcare institutes established by the Ministry of Health & Family Welfare, Government of India under the Pradhan Mantri Swasthya Suraksha Yojana (PMSSY). AIIMS, Bhopal has the vision to make it as one of the excellent Health Care Centers to serve the people of Central India as envisaged under the PMSSY.

Department of Community & Family Medicine

Department has been pivotal in imparting research methodology, epidemiology and biostatistics trainings. It has a set up a computer laboratory and conducted workshops for faculty and SRs of the institute. Departmental faculty have expertise in advanced data analysis and open source softwares like Epi-Infor, Jamovi, Jasp, OpenEpi etc as well as R programming.



About R and RStudio

- R is a free software environment for statistical computing and graphics.
- It is the most popular language among statisticians for developing and introducing new statistical methodology.
- R is an official part of the Free Software Foundation's GNU project.
- R is an open-source, cross-platform (Windows, MacOS, Linux, etc.) with free licence.
- RStudio is an integrated development environment (IDE) for R that provides an alternative interface to R.

What you will learn?

At the end of workshop participant will be able to independently do following with R & RStudio

- Import data and perform data cleaning
- Create publication ready tables
- Apply appropriate statistical tests as well as calculate confidence intervals
- Perform multivariable analysis like regression, survival analysis
- Create publication ready graphs & visualizations
- Use rmarkdown for reproducible research workflow

Workshop Schedule

Day-1

- R and R studio installation
- Basics of R Programming
- Importing data
- Cleaning data
- Exploring distribution of data

Day-2

- Making publication ready tables showing descriptive statistics
- Applying common statistical tests like Chi-square test, t-test, Mann-Whitney Test, ANOVA, Kruskal Wallis test etc

Day-3

- Regression modelling
- Survival Analysis

Day-4

- Data visualization- creating publication ready graphs/charts
- Reproducible research workflow using rmarkdown

Workshop Venue and Timings

Smart Classroom cum Computer Lab,
2nd Floor, Medical College Building,
Dept of CFM, AIIMS Bhopal
Dates- 11-14 Oct 2022
Time- 9:00 am to 5:00 pm