



SHUBHDEEP AYURVED MEDICAL COLLEGE & HOSPITAL

&

INSTITUTE OF APPLIED STATISTICS



Jointly Organising

WORKSHOP ON INTRODUCTORY COURSE ON RESEARCH METHODOLOGY & BIOSTATISTICS

Under Maharshi Charak Ayurveda Research & Development Scheme

Date: 22nd & 23rd September, 2023

at

Shubhdeep Ayurved Medical College & Hospital (PG Institute)

Village Datoda Near Chokhi Dhani, Khandwa Road, Tehsil-Mhow, Dist. Indore, Madhya Pradesh

Patron



Mr. Anand sojatiya

Secretary

Shubhdeep Shikshan Sansthan
Indore, Madhya Pradesh

Co-Patron



Dr. A. P. S. Chauhan

Principal

Government Autonomous Ashtang Ayurved college
Indore, Madhya Pradesh

Organizing Chairperson



Dr. Jayashankar Mund

Principal

Shubhdeep Ayurved Medical College & Hospital
Indore, Madhya Pradesh

Organizing Secretary



Dr. Shivaji Pawar

Professor, Department of Samhita Sidhant
Shubhdeep Ayurved Medical College & Hospital
Indore, Madhya Pradesh

Guest Faculty



Dr. Brijesh Ramprakash Mishra

Principal

Professor and Head
Basic Principles of Ayurved
Shri Ayurved Mahavidyalaya, Nagour
Govt of Maharashtra Aided



Dr. Sharayu Avinash Kore

Professor & Head

Department of Dravyaguna Vigyan
Sumatibhai Shah Ayurveda Mahavidyalaya
Hadapsar, Pune, Maharashtra



Dr. Shubham Pandey

Project Director

Maharshi Charak Ayurveda R&D Scheme
Institute of Applied Statistics
Kanpur, Uttar Pradesh



INTRODUCTORY COURSE ON RESEARCH METHODOLOGY & BIostatISTICS

ABOUT THE COURSE

This workshop focused on the procedure to do quality research. As a researcher it is mandatory for one to know the basics and have a core idea in order to satisfy the purpose of research and establish an acceptable conclusion. This course has given this opportunity to the academicians to enhance the knowledge of biostatistics, their researching skills and understand the methodologies.

COURSE CONTENT:

1. Basis Steps of Fundamental Biostatistics:

Research, Objectives of Research, Need and Purpose of Research, Types of Research, Research according to application or objectives, Scope and Areas of Research, Role of Statistics in Research, Statistics,

2. Fundamentals of study Design Tools:

Study design, Experimental study design (Intervention Studies), Cohort Study, Case control study, Bias in case-control study, Cross sectional study

3. Fundamentals of sampling & Data Collection:

Sampling, Probability or Random Sampling, Non-Probability Sampling, Selection of Subjects/Data collection, Techniques of Data Collection

4. Fundamentals of Reliability & Validity of Data:

Study Tools, Introduction to Reliability & Validity, Sources of "Unsystematic" Threats to Reliability.

5. Fundamentals of Qualitative & Quantitative Analysis:

Qualitative analysis, Quantitative analysis

6. Descriptive Statistics:

Tabulation Presentation- Introduction, Classification of data Graphical presentation- Introduction, General Rules for Graphic - Presentation of Data and Information, Types of Graphs, Pie Charts, The Histogram, Scatterplots, Line Graphs, Frequency Polygon or Histogram, Frequency Curve, Cumulative Frequency Curve or Ogive, Merits of a Graph presentation, Limitations of a Graph presentation.
Central Tendency- Introduction, Median, Mode, Geometric Mean, Harmonic Mean, Quartiles, Deciles, Percentiles, Measure of Dispersion, Kurtosis, Skewness,

7. Inferential Theory:

Inferential Statistics, Hypothesis Testing, Types of hypothesis, Power of a test and power function, Level of Significance, Concept of critical region, Two-Tailed Hypothesis Tests, One-Tailed Hypothesis Tests, Degree of freedom.

8. Fundamentals of Correlation & Regression Theory:

Correlation coefficient, Calculation of the correlation coefficient, Spearman rank correlation, Regression, Assumptions.

OBJECTIVE:

To focus on basic biostatistics and epidemiology in the Ayurveda Research and give a demonstrate knowledge and scientific research in health-related fields and explain the concepts of basic biostatistics & epidemiology, and to perform the computations involved in statistical techniques

COURSE FEE

2000/- INR Per Participant
(18% GST Included)

WORKSHOP REGISTRATION:

- Where to Register : <https://iasdcs.com/>
- **Hard Copy of Certificate & Study Material** will be provided to all the participants.
- **Lunch & Evening Tea-Snacks** will be provided during the Workshop.

WHO SHOULD ATTEND:

Doctors / faculty, any Research scholar of any Medical or non-medical colleges / Universities.

COORDINATORS:

Dr. Shivaji Pawar

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