

## REPORT OF BASIC RESEARCH METHODOLOGY WORKSHOP

Dated- 3rd February to 5th February 2020

Conducted by

MAMs Sumatibhai Shah Ayurveda Mahavidyalaya, Hadapsar, Malwadi, Pune 28

Convenor: Dr.SharayuAvinash Kore

Approval reference – Ref No.MUHS/IMETTT

No. of Participants-39

38 participants were PG 1<sup>st</sup> year students of Sumatibhai Shah Ayurveda Mahavidyalaya,Pune,. One student from B.J.Medical College was registered.Online registration began 3days before scheduled Programme

All the students were present for all the sessions of 3 days workshop. The scanned copy is sent for your refereal.

### DAY ONE- 03/02/2020

Registration

Dr Sharayu Kore Convenor of workshop gave introduction.

Co coordinator for Day –Dr.Jyoti Gavali

Lecture 1-First Faculty Dr Sharayu Kore gave students Introduction to Research Methodology and its importance in Any Science and relevance in medicine.

Lecture content-Research methodology relevant to Ayurvedic perspectives. Changing trend in experimental Researches in Paramedical subjects. Advances in Research like Nano technology, Pharmacogenomics, pProteomics.

Different types of research, Hypothesis, Different topics of research.

Lecture 2- conducted by Dr. Pranita Joshi Deshmukh. –Study Design 1-Descriptive studies-

He covered indications of Descriptive studies, Longitudinal, Cross sectional study, Hypothesis.

Lecture 3- Study designs 2-Case control study- Dr.Pranita Joshi Deshmukh conducted the lecture. He taught what is case control, Bias, Odds, Cohort study design, Retrospective studies

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Lecture 4- Study designs 3-Experimental studies- - Col Dr S.L. Jadhav conducted the lecture he covered topics like different levels of clinical trials, Steps of clinical trials, designing of experimental study. Variables, confounding factors, and level of researches in clinical trial form single case study to meta-analysis

Group activity 1 -Research question design- 6 groups were formed .Each group presented research question, hypothesis, and null hypothesis and dependent and independent variables in their studies. Everyone formed research question. The Group activity 1 was conducted by Dr S.L. Jadhav and faculty and Scientific committee members from college Dr Sharayu Kore ,Dr Jyoti Gavali.

Lecture 5 – Types of data and data presentations- Dr Pravin Bhat conducted this lecture. He explained about various tables figures for data presentations and types of data, This lecture will be beneficial for writing them good research articles. This session was amazing.

Lecture 6- Literary Search- Dr Jyoti Gavali conducted this lecture. Pub-med, clinical trial .Gov. Chochrane Metaanalysis searching, scopus, google scholar and scopus search engines were explained and different websites were explained. Method of search with booleans was explained.

Feedback forms were collected from students.

#### **DAY 2-4/2/2019**

Day Coordinators Dr. Kore and Dr. Gavali

Group activity 2- Dr Jyoti Gavali, References search was done by student on laptop and android phones.

Group activity of literary search was conducted and directed by Dr Jyoti Gavali and Dr Sharayu Kore.

Lecture 11- questionnaire designing: The session was conducted by Dr Sharayu Kore . He explained types of questionnaire questions pros and cons pilot work and validation, its importance and relevance in Ayurvedic Clinical research.

Inferential Statistics –Lecture was conducted by Dr Borle. He explained parametric and Non Parametric Test for various study design in detail. Few students liked this session very much

He explained about different methods of statistical calculations and application of different tests for drawing inferences using available free statistical softwares.

Group activity 6- Group activity conducted by Dr Borle It was short and sweet activity.

Students had brought laptops and mobiles with net facility for the activity.

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Lecture 8- Computer assistance in Data analysis Excel and Epi-info. The lecture was conducted by Dr Borle. He explained use of Excel sheet in details for analysis of data

Gr activity 4 He demonstrated the use of Excel sheets in finding average mean mode standard deviation.

Feedback forms were collected from students for day 2.

### DAY 3-05/2/2020

Coordinators for day Dr. Kore and Registration committee

Lecture 10-Ethical Issues in Medical Research-Dr.Kalpana Ayare covered ethical aspect in post graduate research. and also gave a question to each group to find correct ethical solution to the issue.

Lecture 7-sampling methods and Sample size- conducted by Mr Sagar Khandagale were taught about calculating sample size and types of sampling methods.

Gr activity 3 – Participants were divided in 6 groups, they calculated sample size and discussed different sampling methods. Group activity was conducted by faculty Mr Sagar Khandagale. Student appreciated the faculty efforts.

Lecture 12-Qualitative Research Methods were explained by Dr Sharayu Kore. She explained relevance of ayurvedic researches and qualitative methods with suitable examples and also motivate the students by conducting group activity to understand some simple techniques to find answer to questions useful in Psychological aspect.

Lecture 13 - Evaluation of diagnostic test- by Dr Jyoti Gavali

Dr.JyotiGavali conducted session. She explained Specificity, sensitivity, validity and precision of a diagnostic test and use of ROC curve in evaluation.

Lecture 14- Critical appraisal of Journal article was conducted by Dr Kalpana Ayare. Ethical issues in clinical Researches were discussed with suitable examples.

Dr.Kore Sharayu and Dr.kalpana Ayare conducted group activity for the same. Check list of questions were given as study material and articles were given for group activity. Group presented their appraisal for given article.

The valedictory function was graced by presence of Hon. Vice Principal Dr.Phule and P.G. coordinator Dr.Vaishali Bhosale and Pro. Dr Sharayu Kore and Dr. Gavali cocordinator of Programme.. Dr Sharayu Kore Convenor of Workshop briefed overview of the workshop.

Two delegates were given opportunity to share their views regarding workshop. Post test and feedback forms were collected and were given for statistical analysis

According to statistical analysis Dr. Ayare Kalpana and Myself Dr. Kore Sharayu have worked as faculty. The remarks for faculty were between 4 and few in 3.

The best student and best group were declared. They were felicitated by dignitaries. Programme was ended with national anthem. I thank to MUHS and College management for giving me the opportunity to coordinate the Workshop.

The pretest and post test shows significant difference which is attached in graphical presentation.

Programme details: Final Schedule

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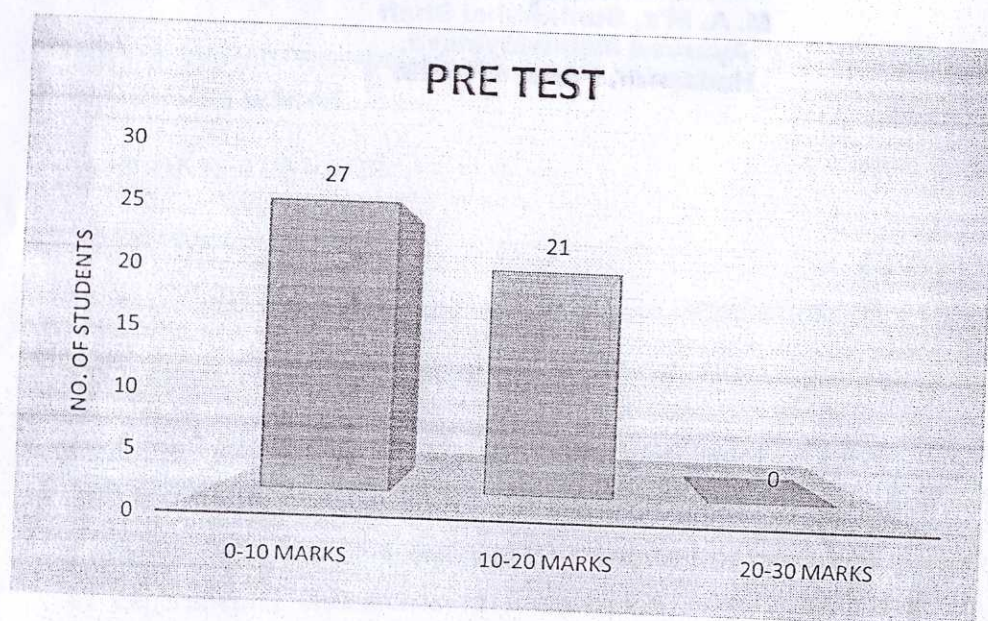


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PRE TEST	NO OF STUDENTS	PERCENTAGE
0-10 MARKS	27	56.3
10-20 MARKS	21	43.8
20-30 MARKS	0	0.0
TOTAL	48	100.0

For pre-test, out of 48 students, 27 students had got 0-10 marks, 21 students had got 10-20 marks and 0 students got 20-30 marks.



POST TEST	NO OF STUDENTS	PERCENTAGE
0-10 MARKS	3	6.3
10-20 MARKS	45	93.8
20-30 MARKS	0	0.0
TOTAL	48	100.0

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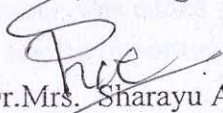


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Committee members were felicitated.

Vote of thanks was given by Dr. Rashmi Kale.

  
Pro. Dr. Mrs. Sharayu Avinash Kore

Convenor:

  
Pro. Dr. Mrs. Nilakshi S. Pradhan

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Basic research Methodology Workshop

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**BRMW 3rd Feb to 5th Feb 2020**



Report Summary of MUHS  
approved Basic Research  
Methodology Workshop  
conducted at MAM's  
Sumatibhai Shah Ayurveda  
Mahavidyalaya Hadapsar  
Pune from 6th -8th Feb 2020.

# Report on Basic Research Methodology Workshop

06-08 February 2020

Author: Dr Pranita Joshi Deshmukh  
Workshop Coordinator MAM's Sumatibhai  
Shah Ayurveda Mahavidyalaya



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Basic Research Methodology Workshop is being conducted by Sumatibhai Shah Ayurved Mahavidyalaya since more than 7 years with a legacy of yearly intellectual feast by multifaceted academicians, researchers and clinicians. This year as well we conducted two workshops from 3<sup>rd</sup> to 8<sup>th</sup> Feb 2020.

This report addresses details of second workshop from 6-8 Feb 2020. Workshop approval for our application to MUHS was received on 10<sup>th</sup> January 2019. We started online procedures immediately. All the registrations were done with online portal for workshop registrations.

Dr Pranita Joshi Deshmukh was appointed as Convener/ Workshop Coordinator for second workshop by Hon. Principal Dr Nilakshi Pradhan. As per the guidelines we completed registrations of fifty (50) delegates from Ayurveda, Homeopathy faculty from the online student list. Due to some unavoidable personal reason one delegate couldn't attend the program. There was a good representation of delegates from four academic institutes.

SSAM Pre MD/MS students from all subjects	36
Tilak Ayurveda College	02
SMBT Ayurved Medical College Igatpuri Nashik	
(7 students +1 faculty)	08
A R A Sangamner College	02
Anantrao Kanase Homoeopathic Medical College Aalephata	01

Total participants were forty nine (49).

College authorities and Students representative from above respective institutes were pivotal in managing the students' registrations and spreading the word about the workshop formalities.

On Day one with a modest inaugural session we lightened the lap by hands of first speaker Dr S L Jadhav and started the workshop delegation in the blessed presence of Hon. Secretary Mr Anil Gujar, Hon. Principal Dr Mrs Nilakshi Pradhan and Workshop Convener Dr Pranita Joshi Deshmukh.

Pretest was conducted and then Introduction to Research Methodology and Study Designs-1: Descriptive studies were well executed by dynamic faculty Dr. S L Jadhav.

After tea break our in-house faculty and HSET coordinator Dr Pranita Joshi Deshmukh conducted detailed lecture on Experimental Study designs-2: Case Control, Cohort Studies and other designs for Ayurveda Research. She incorporated few basic principles of Ayurveda and discussed corresponding research designs followed by group activity post lunch.

'Types of data and data presentation' lecture were conducted by Dr Pravin Bhat. Our in-house faculty and member of organizing committee Dr Jyoti Gavali conducted session on Literature Search to mark the end of day 1.



Day 2 was full of interesting lectures and hands on training with group activities started with Literature search by Dr Jyoti Gavali

Tilak Ayurved College faculty Dr Mohan Joshi mesmerized audience by demystifying the difficult topic of Sampling: Methods & Sample size with thought-provoking Group Activity on Sampling: Methods & Sample size.

Bio-statistician Dr Swati Raje engaged the audience with Inferential Statistics with post lunch exciting Group Activity on Inferential Statistics as well as hands on training on Excel and EPI Info.

In house faculty Dr. Sharayu Kore conducted lecture on Questionnaire Designing.

Day 3 started with moral foundation by Dr. Supriya Bhalerao by explaining the technicalities of Ethical Issues in Medical Research Groups followed by presentation by groups on ethical issues in their respective studies.

Post tea Dr Bhalerao also engaged the audience on most attention-grabbing topic of Writing the Research protocol and then pre-lunch session ended with many discussions and feedbacks showcasing newly ignited interest in audience about various research concepts.

Dr. Jyoti Gavali then engaged the audience with Evaluation of a diagnostic test. Dr Kalpana Ayare highlighted presentation on 'Critical Evaluation of Journal article' with interesting group activity where Two journal articles (different study designs) presented and discussed by members.

Post-test and feedbacks by delegates were collected and analyzed. Daily feedback and workshop feedbacks were encouraging with more than 3 ratings to 5 ratings out of 5 for all faculties and few suggestions like increase in duration of workshop, more time for group activities were mentioned by delegates.

By a humble valedictory function in the presence of Hon. Principal Dr Mrs Neelakshi Pradhan and Workshop Convener Dr Pranita Joshi Deshmukh workshop was summarized.

Dr Sharayu Kore anchored the session. 'Best participant award' and 'Best delegate group' were selected from their performance for three days and feedback from faculties and were felicitated by dignitaries on the dais. Two delegates expressed their feelings about the experience of workshop.

Overall workshop was well coordinated with dedicated team members in scientific and organizing committee as Convener and faculty Dr Pranita Joshi Deshmukh, Dr Kavita Deshmukh (Kit), Scientific committee members and faculty Dr Sharayu Kore, Dr Jyoti Gavli, other in house faculties Dr Pravin Bhat, Dr Kalpana Ayare, Dr Amol Sable (food), Dr Rita Mangle, Dr Anjana Ghogare, Dr Gayatri Savant, Dr Pallavi Patil, Dr Amol Sable, Dr Supugade and Dr Priyanka Keram (Organizing committee). All members along with non-teaching staff contributed to the success of this workshop.



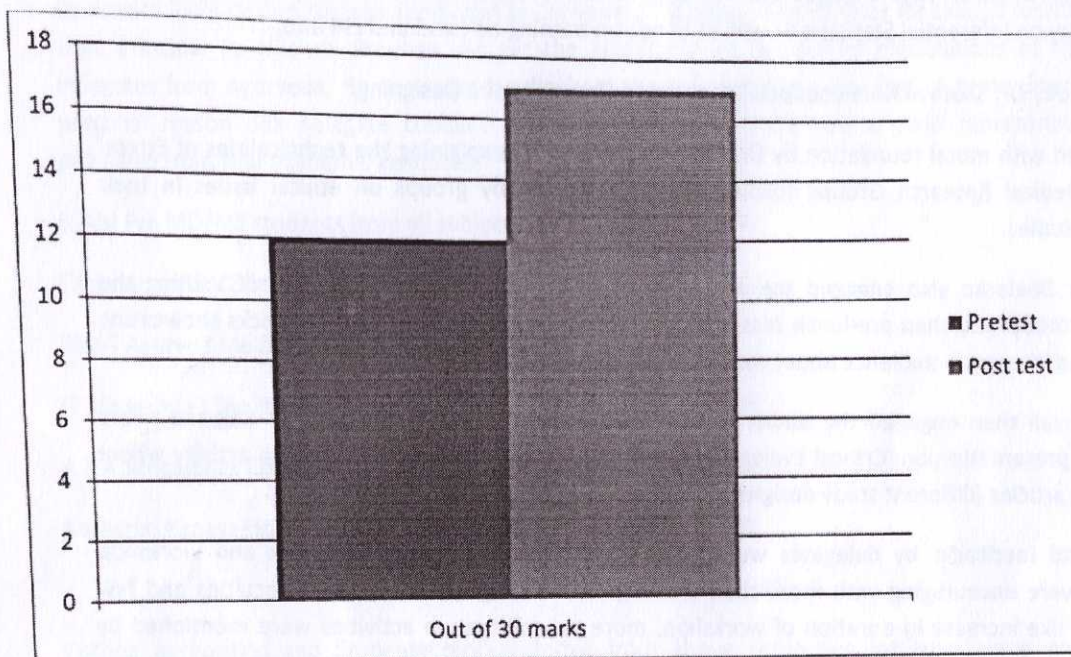
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### Analysis of Pre-test and Post-test

49 students Pretest and Post test scores were analyzed, following graph shows difference in mean score.

PRE TEST (Avg score)	POST TEST (Avg score)
12 out of 30	17 out of 30



We would like to thank MUHS and HSET unit for timely guidance and support in every step of organizing this workshop. We appreciate your help. We look forward to future collaborations in HSET activities with MUHS's prestigious platform.

*Pranita Joshi*  
Dr Pranita Joshi Deshmukh  
BRMW Workshop Coordinator



*Nilakshi Pradhan*  
Dr Mrs Nilakshi Pradhan  
Principal

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**BRMW 6th Feb to 8th Feb 2020**