



**ADVANCED CENTRE**



**FOR EVIDENCE BASED CHILD  
HEALTH**

**SHORT COURSE**

**“HOW TO PRACTISE EVIDENCE BASED  
CHILD HEALTH”**

**12<sup>TH</sup> -14<sup>TH</sup> OCTOBER, 2012**

**SCHOOL OF PUBLIC HEALTH (SPH)  
PGIMER**

The ICMR-Advanced Centre for Evidence Based Child Health PGIMER, Chandigarh organized a three day short course “How to Practise Evidence based Child Health” from 12<sup>th</sup> Oct - 14<sup>th</sup> Oct, 2012 at School of Public Health (SPH). Participants from Chandigarh, Delhi and Punjab of different streams like pediatrics, community health, oral health sciences and nursing and faculty members of the SPH had attended the course with great enthusiasm. The short course trained the participants in critical appraisal of various clinical trials and introduced them with the concept of evidence based child health. They were also provided with hands-on experience of using various medical databases (PUBMED, Cochrane library etc). A special demonstration of **BMJ Clinical Evidence** database was also conducted.

**LIST OF MEMBERS WHO HAVE  
ATTENDED THE COURSE**

## **TUTORS**

1. Dr. Meenu Singh
2. Dr. Joseph L. Mathew
3. Dr. Bhavneet Bharti
4. Dr. Anju Sinha
5. Dr. Nusrat Shafiq
6. Dr. Pramod Kumar Gupta
7. Dr. Madhu Gupta
8. Dr. Neeraj Gupta
9. Mrs. Neelima Chadha
10. Dr. Nishant P. Jaiswal
11. Dr. T. Kiran Kumar
12. Ms. Harpreet Kaur

## **REGISTERED PARTICIPANTS**

1. Dr. Ajay K. Tiwari
2. Dr. Aurobindo Mitra
3. Dr. Preeti Padda
4. Dr. Govind Benakatti
5. Dr. Kana Ram Jat
6. Dr. Ravneet Kaur
7. Dr. Ashutosh Sarwa
8. Dr. Jeyashree K.
9. Dr. Shankar Prinja
10. Dr. Smita Sinha
11. Nitasha Rani
12. Nitasha Sharma
13. Manjula Thakur
14. Surinder Kapoor
15. Shruti
16. Prabhjot Kaur
17. Monaliza
18. Meenakshi Agnihotri
19. Lakhwinder Kaur
20. Dr. Karobi Das
21. Sunita Sharma
22. Dr. Ajith Brabhu Kumar C.
23. Dr. Manmeet Kaur
24. Dr. Ravindra Khaiwal
25. Dr. Heena
26. Dr. N. Pallavan
27. Dr. Ashok K. Jena
28. Dr. Hitesh Chander

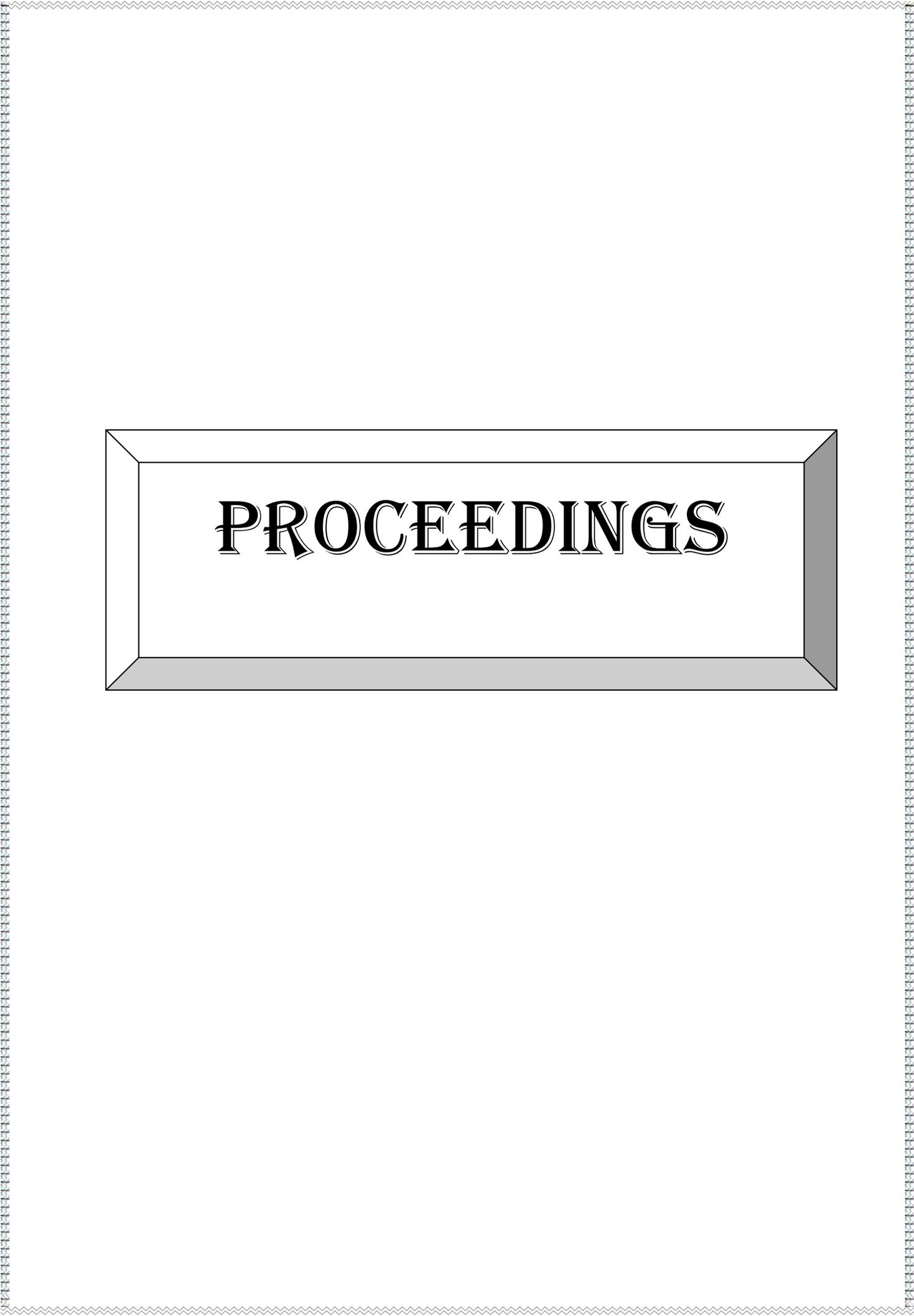
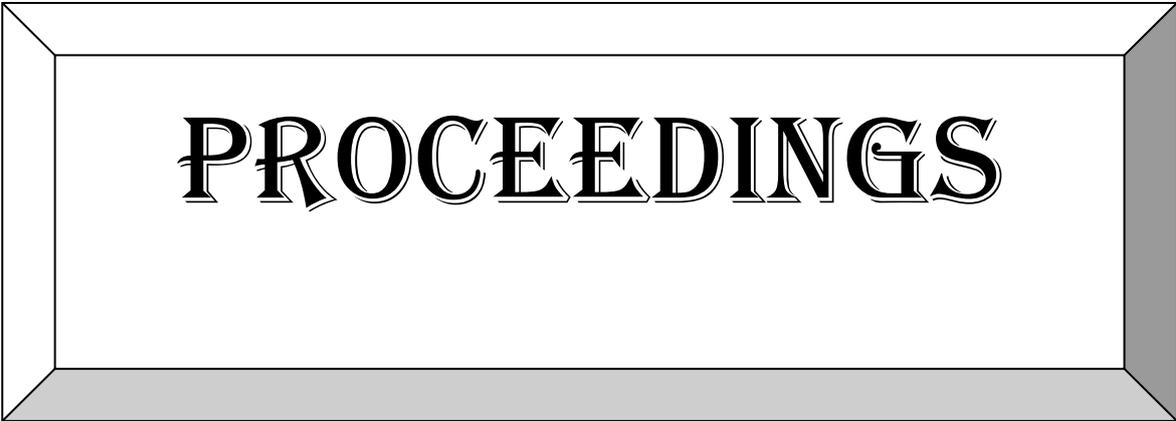
29. Dr. Ashima Goyal
30. Dr. Kunal Jhanji

### **OTHERS**

1. Dr. Rajkumar (Panjab University)
2. Mr. Vinod Grover (Panjab University)
3. Dr. P.V. Rao (MGSIPAPs, CHD)
4. Dr. Harjit Singh Cheema (Dr. Tulsi Das Library,PGIMER)
5. Preeti Singh (SPH, PGIMER)
6. Dr. Freaah Rehman (Oral Health Science Centre, PGIMER)

### **SECRETARIAL STAFF**

1. Mr. S.D. Rana
2. Mr. Pankaj Pant

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# PROCEEDINGS

**12<sup>th</sup> Oct, 2012**

**Day 1**

The day began with registration of the participants for the course. A brief introductory round for the participants as well as for the tutors was held. Principal Investigator, Dr. Meenu Singh made everyone aware about the evidence based child health and the role the ICMR centre is going to play in this area. A pre-test for the short course was conducted. Thereafter, distribution of course material was done. Dr. Meenu Singh took plenary session for the course followed by an introductory lecture on randomized control trials by Dr. Nusrat Shafiq. She discussed about intervention studies: types of randomization, blinding, population, sample size etc. Participants were then divided into groups for RCT appraisal session which was conducted by Dr. Nusrat Shafiq, Dr. Neeraj Gupta, Dr. Madhu Gupta and Dr. Nishant P. Jaiswal. The appraisal of the intervention study was done according to the checklist provided in the learning material.

In the afternoon session, the basics about literature searching were taught by Mrs. Neelima Chadha. Participants were made familiar with the use of MeSH database for performing searches in PUBMED. A common session for both the groups on methodology in meta-analysis was taken by Dr. Pramod Kumar Gupta.

**13<sup>th</sup> Oct, 2012**

**Day 2**

The day began with plenary session for diagnostic tests. The session was conducted by Dr. Joseph L. Mathew. He explained the importance of Gold Standard concept, sensitivity and specificity. Then the participants in groups discussed the diagnostic paper given in the course material. The critical appraisal of the diagnostic study was carried according to the checklist by Dr. Neeraj Gupta, Dr. Madhu Gupta and Dr. T. Kiran Kumar. In the afternoon session, a special demonstration of **BMJ Clinical Evidence** database was carried out by Mr. Ashutosh Sharma from BMJ, New Delhi. He gave a detailed description about the journals available on evidence based discipline on their database platform.

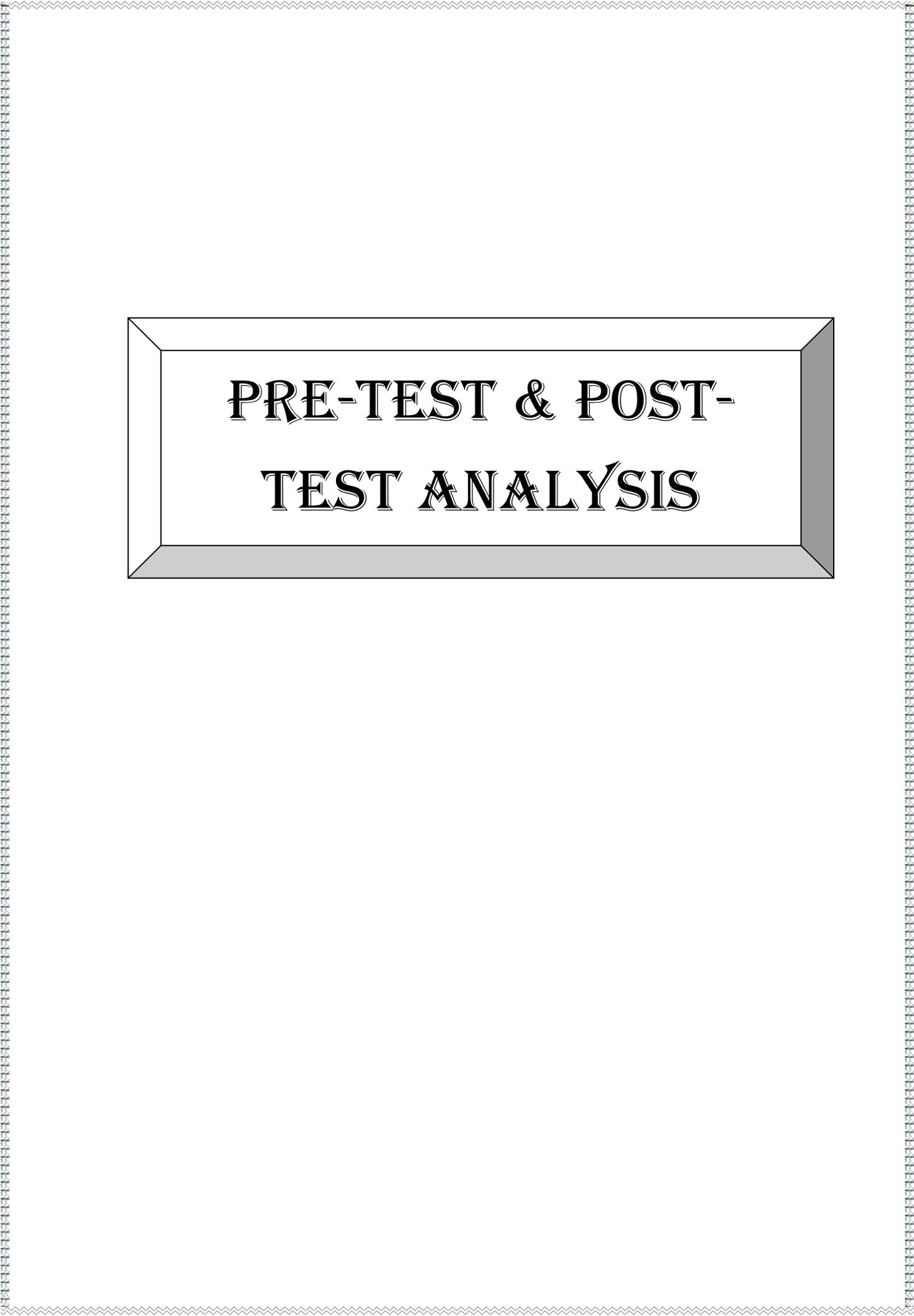
Dr. Pramod Kumar Gupta took a common session for participants on sample size and power of study in the evening.

**14<sup>th</sup> Oct, 2012**

**Day 3**

The last day was devoted to study of systematic reviews. Dr. Anju Sinha from ICMR, New Delhi took the plenary lecture on how to conduct a systematic review. Dr. Meenu Singh educated the participants about how to write a protocol followed by the critical appraisal of systematic review paper; session taken by Dr. Bhavneet Bharti. A demo of Cochrane Library and searches in that were also conducted.

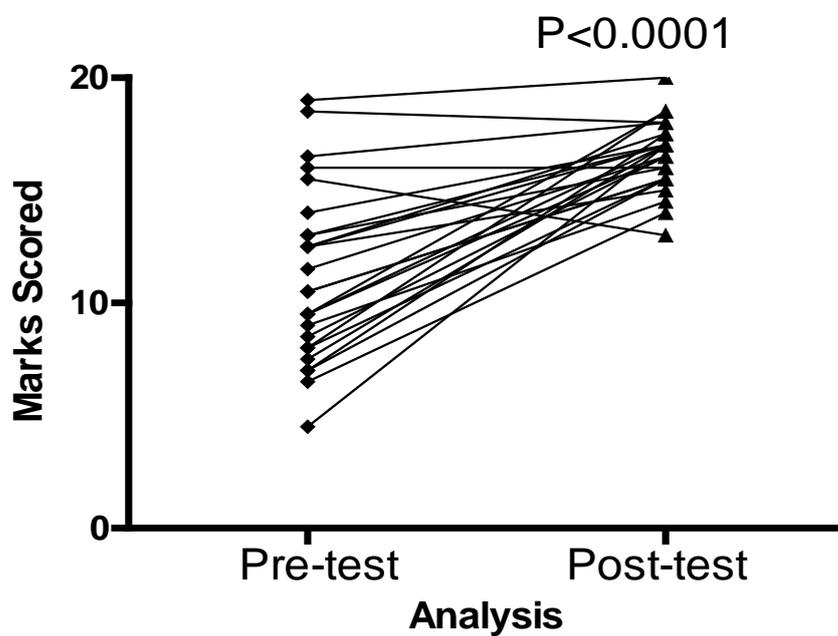
In the afternoon, participants were given post-test for the course and feedback questionnaires were taken from them. Dr. Rajesh Kumar HOD, School of Public Health presided as chief guest for the valedictory ceremony. He acquainted the participants about the life and works of Archie Cochrane, the father of Evidence Based Medicine. Course participation certificates were distributed by him, Dr. Meenu Singh and Dr. Anju Sinha.

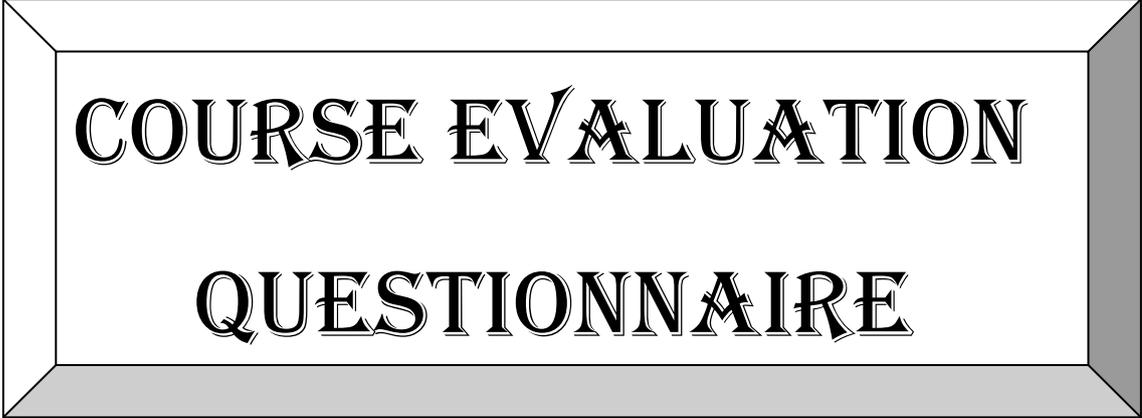
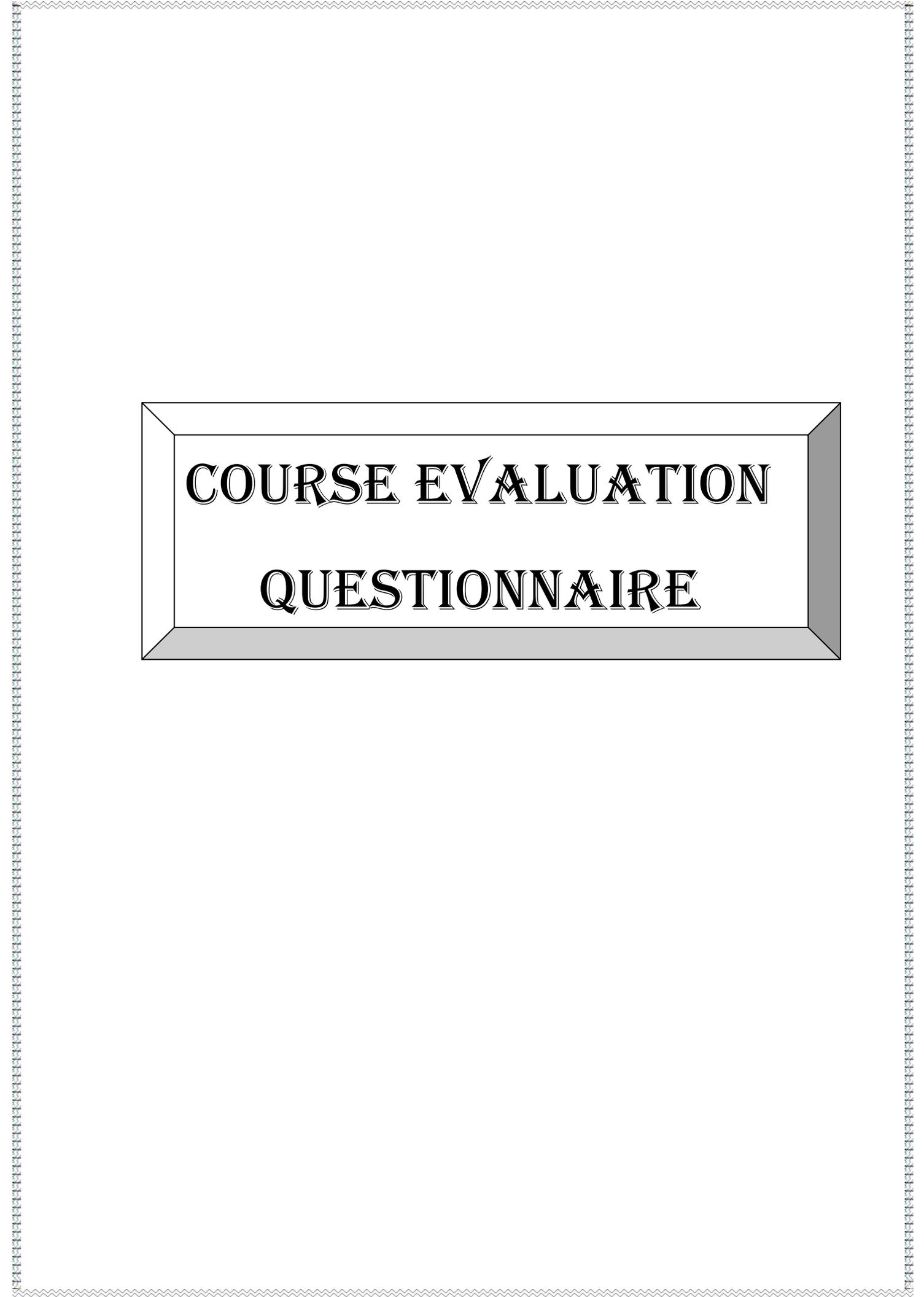


**PRE-TEST & POST-  
TEST ANALYSIS**

Pre-test was conducted on 12<sup>th</sup> October 2012 and a total of 28 participants were given the test. Post-test was conducted on 14<sup>st</sup> October 2012 (at the end of work shop) and a total of 28 participants were given the test. The mean difference between Pre-test ( $11.15 \pm 3.80$ ) and Post-test analysis ( $16.53 \pm 1.51$ ) showed significant and the participants performed better during the post-test when compared to the pre-test ( $p < 0.0001$ ) (Figure 1).

Figure 1.





**COURSE EVALUATION**  
**QUESTIONNAIRE**

At the end of the workshop, all the participants were asked to fill the feedback forms regarding the plenary sessions, systematic reviews, group discussions, literature search and impact on the use of evidence in future practice. A total of 28 feedback forms were received from the participants. The participants were asked to mark or rate the performance given as numbers (1-poor to 5-excellent).

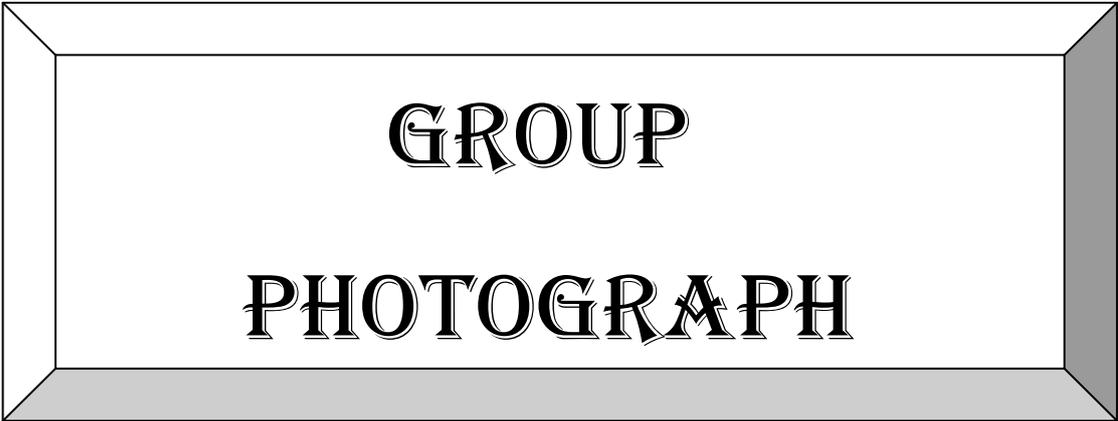
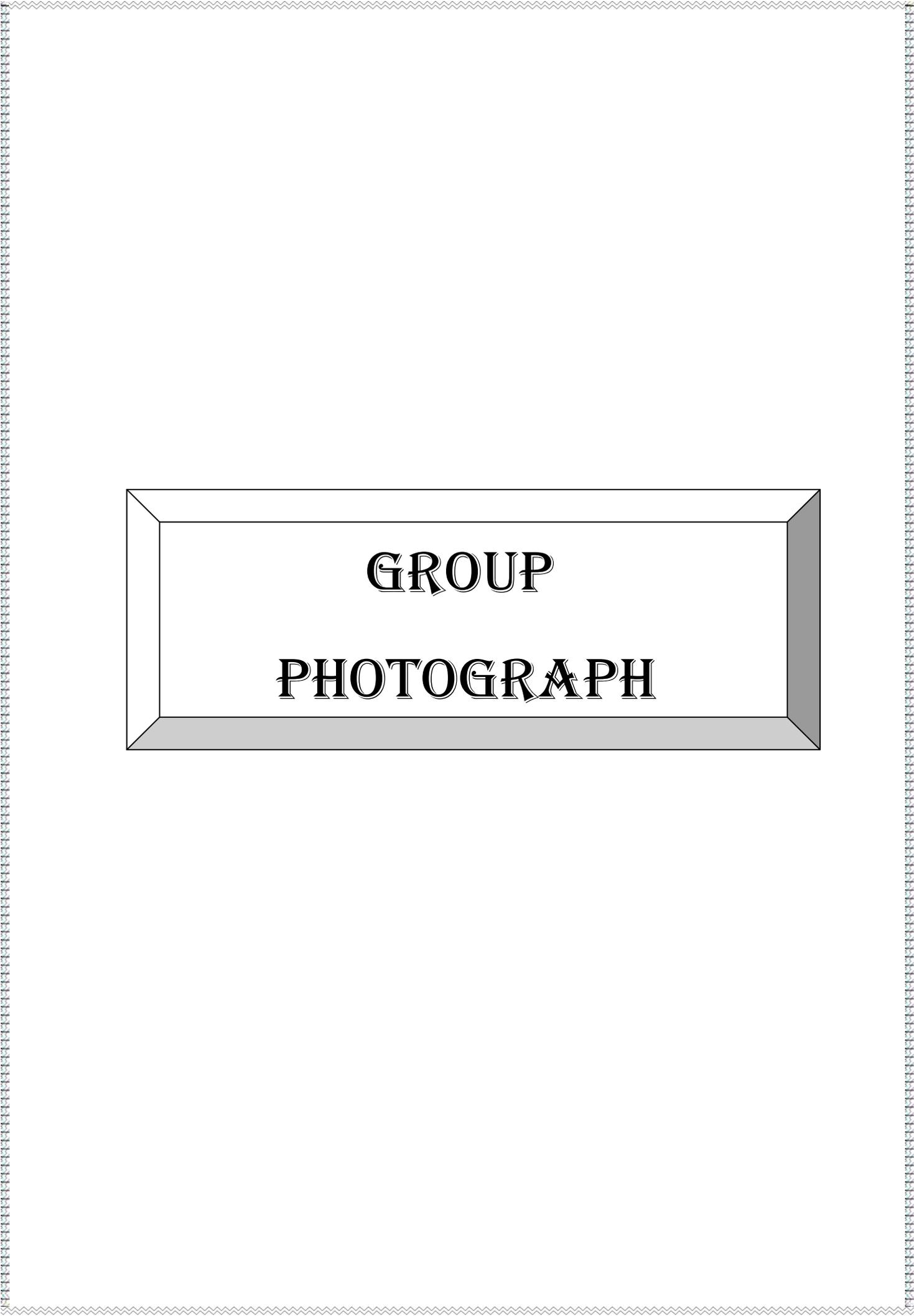
1. 63% of the participant felt that the course objective was well met and rated good and 37% rated excellent.
2. 7% of the participants read the preparatory material for the appraisal session before the workshop.
3. Only 18% of participants felt that the work shop material given was too much.
4. 47% of participants rated excellent, 32%% rated good and 21% rated above average regarding the relevance of small group sessions. 58% of participants rated excellent, 42% rated good regarding the teaching of small group sessions.
5. 60% of participants felt relevance and teaching of the Intervention session was excellent and the remaining 40% of participants felt good.
6. 57% of participants felt relevance and teaching of the Diagnostic tests session was excellent and the remaining 43% of participants felt good.
7. 54% of participants felt relevance and teaching of carrying out a systematic review session was excellent and the remaining 46% of participants felt good.
8. 54% of participants felt excellent where the plenary sessions were useful in helping to understand how to use evidence in practice and the remaining 46% of participants felt good.
9. 26% of participants rated excellent the way in which the groups were facilitated and the remaining 32% and 42% of participants felt good and above average.
- 10.40% of participants rated excellent the relevance of the course to their work and the

remaining 60% of participants felt good.

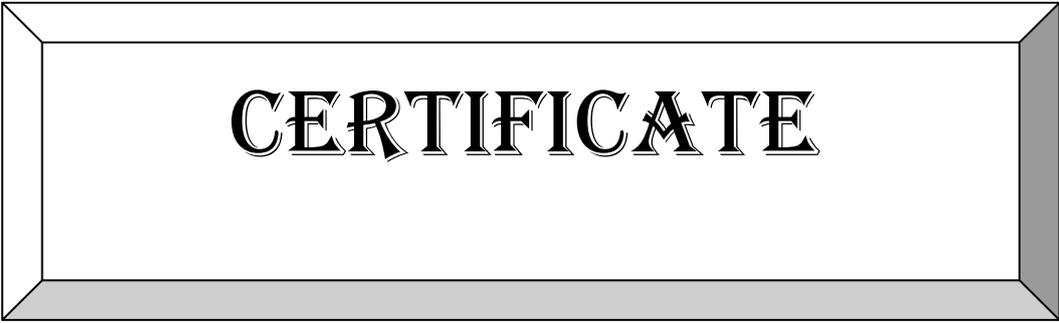
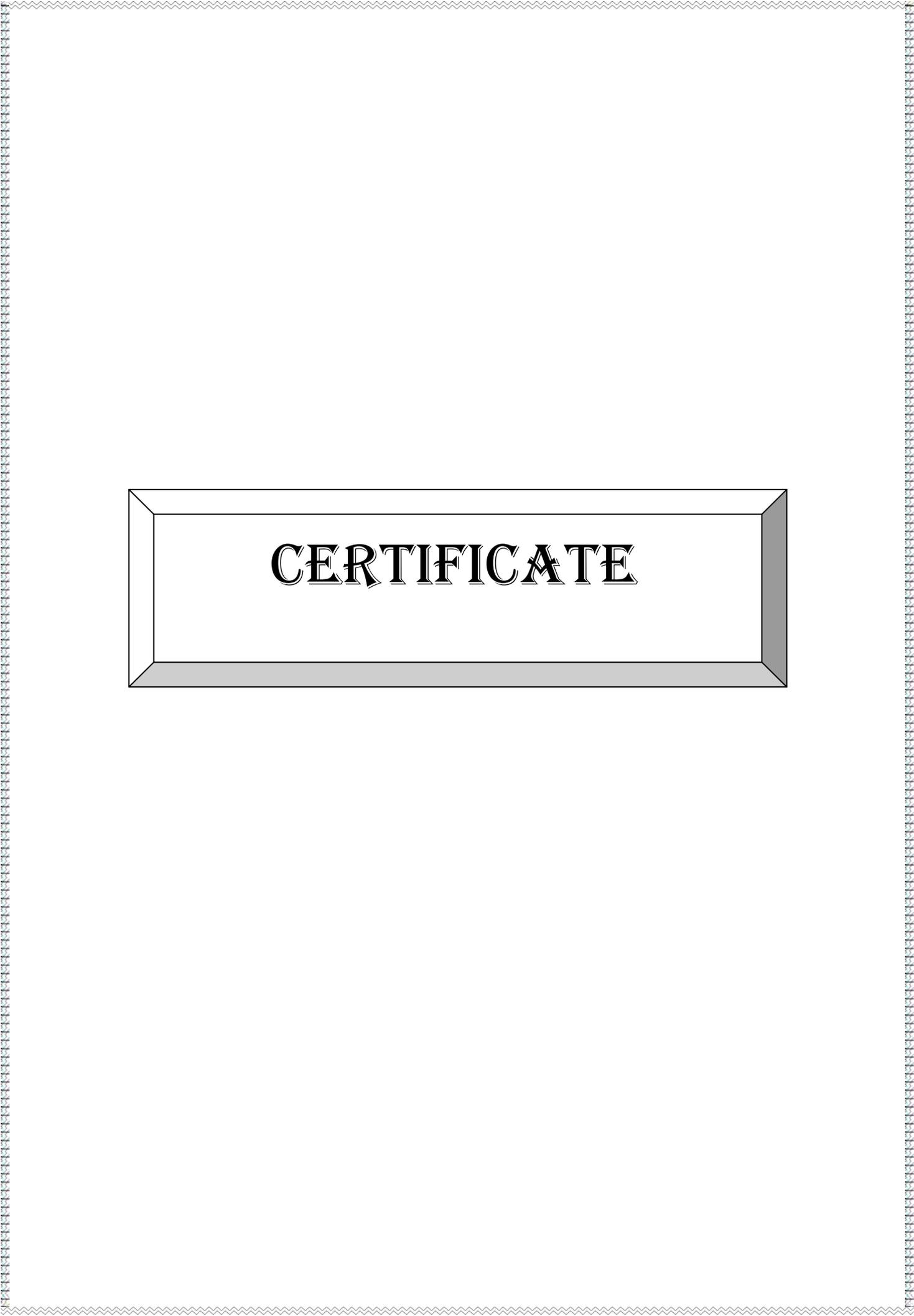
11.47% of participants rated excellent that the course will have impact on the use of evidence in future research and the remaining 53% of participants felt good.

12.43% of the participants enjoyed the small group sessions and rated them excellent and the remaining 57% of participants felt good.

13.All the participants were interested in learning more about evidence based medicine. 35% of the participants are interested in all i.e, training to be a tutor, advanced workshop on practicing evidence based course for children and running groups at work place. 42% of the participants are interested in advanced workshop on practicing evidence based course for children, 28% of participants are interested in training to be a tutor and the remaining 53% of participants are interested in running groups at their work places.



**GROUP  
PHOTOGRAPH**



**CERTIFICATE**