



Training Course on **Scientific Writing**

Introductory Document

5th - 9th September, 2011



National Institute of Health and Family Welfare
Munirka, New Delhi



World Health Organization
Country Office, New Delhi



Indian Institute of Health and Family Welfare
Hyderabad, Andhra Pradesh

Training Course on Scientific Writing (5th – 9th September, 2011)

**Indian Institute of Health & Family Welfare, Hyderabad
Andhra Pradesh**

Course Coordinating Team

Course Director	:	Prof. Deoki Nandan
Course Coordinator	:	Dr. Madhulekha Bhattacharya
Course Co-coordinator	:	Dr. Meerambika Mahapatro
Local Coordinator	:	Dr. N.V. Rajeswari



World Health Organization
WHO India



आरोग्यम् सुखसम्पदा

**Deptt. of Community Health Administration
National Institute of Health & Family Welfare,
New Delhi**



**Indian Institute of Health & Family Welfare
Hyderabad, Andhra Pradesh**

Introduction

A critical aspect of the scientific process is the preparation of reports and reporting of new results in scientific journals in order to disseminate information to the larger community of scientists. Communication of the results contributes to the pool of existing knowledge. Often it provides scientific knowledge for future research. Communicating research findings in peer reviewed journal is a prerequisite skill for every public health personnel. This Scientific Writing Training Course is designed to help health professionals to document their researches. The learnings from the workshop will upgrade their skills to effectively communicate the findings from the field based on programme data and from research studies.

Objectives

- Illustrate the process of writing research documents/ reports more efficiently;
- Demonstrate and write various sections of the scientific paper/ report precisely.

Course Contents

- Draft Manuscript/Report
- Argument Matrix
- Writing Title, Abstracts, Methods, Table, Figures
- Results and Discussion
- Authorship and Ethics
- Preparation of a Report on given data

Methodology

The course consists of “learning by guided practice” and will have lectures, group work, exercises, and presentations. The participants will prepare a draft manuscript available with them or prepare a report on a given set of data and submit at the end of the course.

Duration

Five days (5 - 9 September, 2011)

Number of Participants

18 Participants

Nature of Participants

Officers from health directorate working as programme officers of any health programme at center, state/ district level and faculty members from government & private medical, research organizations.

Training Outcome

At the end of the course participants would be able to:

1. have improved their own scientific writing/ documentation skills;
2. developed an aptitude to use peer-review comments in writing.

Venue

Indian Institute of Health & Family Welfare (IIHFW), Vengalrao Nagar, Hyderabad, Andhra Pradesh

Road Map

To develop a pool of officers, faculty members from health system or medical colleges for preparing reports and research papers.

**Programme Schedule of Training Course on Scientific Writing at IIHFW,
Hyderabad, Andhra Pradesh**

5th -9th September, 2011

Day-I: 5th September, 2011			
Time	Activities	Broad learning objectives	Resource
09:00-10:00	Registration		
10:00- 10:45	Inauguration	Welcome, introduction, and about the training course	Prof. Deoki Nandan Director-NIHF Shri Lokesh Kumar, Director-IIHFW, Hyderabad Dr. N.K. Sethi, Prof., NIHF Dr. Madhulekha Bhattacharya, NIHF Course Team
10:45-11:00	Expectations from course	• The participants express their fears & expectations from the course.	Course Team
11:00 – 11:15	TEA		
11:15-12:15	Report Writing	• Become familiar with the various sections of a report	Dr. N.K. Sethi, Prof., NIHF
12:15-13:00	Presentation on IMRaD	• Become familiar with the concept of various sections of writing a research paper.	Dr. Madhulekha Bhattacharya, NIHF
13:00-13:15	Participants work in small groups to correct the different sections of a report/paper and present.	• Consolidate skills in arranging sections of report/paper	Facilitators
13:15-14:00	Lunch		
14:00-15:15	Style of Writing a report or a scientific paper	• Become familiar with the concepts of style of writing a report or a scientific paper.	Mr. Dinesh Sinha Medical Editor
15:15-15:30	TEA		
15:30-18:00	Group work	• Become familiar with the essential elements of style of writing a report or a scientific paper.	Mr. Dinesh Sinha Medical Editor

Day-II: 6th September, 2011			
Time	Activities	Broad learning objectives	Presenter
09:30-10:15	Style of Writing with focus on language and grammar	• Become familiar with different language and grammar in writing a report.	Mr. Dinesh Sinha Medical Editor

10:15-11:00	Participants work in small groups to correct the writing style in a given manuscript and presentation	<ul style="list-style-type: none"> • Consolidate skills in writing a scientific article using the correct style. 	All Facilitators
11:00-11:15	TEA		
11:15 –12:30	Ethics issues in scientific writing	<ul style="list-style-type: none"> • Become familiar with ethical issues in scientific writing and those related to plagiarism, scientific misconduct etc. 	Prof. Deoki Nandan Director-NIHFW/ Dr. Prakash Bhatia, Prof., Osmania Medical College
12:30-13:15	Presentation on methods section	<ul style="list-style-type: none"> • Become familiar with the essential elements of writing the method of section. 	Dr. D.K. Raut VVMC
13:15-14:00	Lunch		
14:00-15:15	Participants work in small groups to correct the method sections of a given manuscript and make presentation	<ul style="list-style-type: none"> • Acquire skills on writing the methods section 	All Facilitators
15:15-15:30	TEA		
15:30-16:45	Writing the results of a manuscript	<ul style="list-style-type: none"> • Become familiar with the essential elements of writing the results 	Dr. Madhulekha Bhattacharya NIHFW
16:45-17:30	Validity of data and interpretation of simple statistical tests	<ul style="list-style-type: none"> • Become familiar with data management and interpretation of simple statistics. 	Dr. P. Satya Sekhar, IIHFW

Day-III: 7th September, 2011			
Time	Activities	Broad learning objectives	Presenter
9:00-9:30	Working on the topics preparation of report or paper	<ul style="list-style-type: none"> • Participants learn to interpret data for preparing report/paper 	All Facilitators
09:30-10:30	Organizing and communicating data	<ul style="list-style-type: none"> • Acquire concept of communicating data. 	Dr. Madhulekha Bhattacharya NIHFW
10:30-11:30	Participants work in small groups to edit/recreate the tables and figures of the given result section of a given manuscript including results and data	<ul style="list-style-type: none"> • Acquire skills in preparing result section, tables and figures 	Facilitators
11:30-11:45	TEA		
11:45-13:00	Presentation on results and data by the teams	<ul style="list-style-type: none"> • Become familiar with the essential elements of writing results 	Ppt by participants
13:00-14:00	Lunch		
14:00-15:15	Writing the introduction	<ul style="list-style-type: none"> • Become familiar with the essential elements of introduction 	Dr. N.V. Rajeswari, IIHFW
15:15-15:30	TEA		

Day-III: 7th September, 2011

Time	Activities	Broad learning objectives	Presenter
15:30-17:00	Participants work in small groups to create the introduction of the draft manuscript	<ul style="list-style-type: none"> Consolidate knowledge/skills on introduction section 	All Facilitators
17:00-18:00	Communication with journal editor for publication	<ul style="list-style-type: none"> Participants will become familiar with how to respond to reviewer's comments. 	Dr. Dr. Meerambika Mahapatro NIHFW

Day-IV: 8th September, 2011

Time	Activities	Broad learning objectives	Presenter
9:00-9:30	Working on the preparation of report or paper	<ul style="list-style-type: none"> Participants learn to interpret data for preparing report/paper 	All Facilitators
09:30-10:00	Argument Matrix	<ul style="list-style-type: none"> Become familiar with how to construct an argument in a scientific manuscript 	Dr. D.K. Raut VVMC
10:00-11:15	Writing the discussion & conclusion	<ul style="list-style-type: none"> Become familiar with the essential elements of the discussion & conclusion 	Dr. D.K. Raut VVMC
11:15-11:30	TEA		
11:30-13:00	Participants work in small groups to write the discussion & conclusion section	<ul style="list-style-type: none"> Acquire skills on writing the discussion & conclusion section of a manuscript 	All Facilitators
11:45-13:00	Participants present discussion & conclusion	<ul style="list-style-type: none"> Skills acquired in writing discussion & conclusion section 	Participants
13:00-14:00	Lunch		
14:00-15:30	Presentation on limitations and recommendations of the study	<ul style="list-style-type: none"> Acquire skills in writing the limitations and recommendations of a report 	Dr. Madhulekha Bhattacharya, NIHFW
15:30-15:45	TEA		
15:45-17:00	Participants work in small groups to write the limitations and recommendations of their manuscript	<ul style="list-style-type: none"> Consolidate knowledge/skills for the day 	All Facilitators
17:00-18:00	Writing the Title and references	<ul style="list-style-type: none"> Become familiar with writing a good title and formatting references 	Dr. Meerambika Mahapatro NIHFW

Day-V: 9th September, 2011			
Time	Activities	Broad learning objectives	Presenter
09:00-10:00	Writing an Abstract and executive summary	<ul style="list-style-type: none"> Understand how to effectively write an abstract 	Dr. Madhulekha Bhattacharya, NIHFW
10:00-11:00	Participants work in small groups to write the abstract and executive summary	<ul style="list-style-type: none"> Acquire skills on writing an abstract of a manuscript 	All Facilitators
11:00-11:15	TEA		
11:15-12:15	Participants work in small groups to finalise their report.	<ul style="list-style-type: none"> Able to prepare a scientific article/ report 	All Facilitators
12:15-1:30	Assessment of the final report	<ul style="list-style-type: none"> Presentation of the final manuscript 	Ppt by participants & assessment by facilitators
1:30-14:15	Lunch		
14:15-15:00	Continued.....	Continued.....	Continued.....
15:00-16:00	Valedictory		Prof. Deoki Nandan Director-NIHFW
16:00-16:30	HIGH TEA		

The programme is residential and during the training the participants will be working in the evening to complete the report so that it is ready in a period of 5 days, facilitated by the facilitators. There will be a tea break in the pre lunch and post lunch session, each day.

RESOURCE PERSONS

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The National Institute of Health and Family Welfare is an apex technical institute of public health and family welfare in the country aiming to achieve wellbeing and vitality of the Indian people. The Institute has been addressing a wide range of issues on public health and family welfare management by its multi-disciplinary functions in the form of research, consultancy, education and training interventions for last more than three decades.

In-service training of middle and senior level health professionals, and research have been the two major concerns of its mandate. It has been identified by the Ministry of Health and Family Welfare as the nodal institute for supervision, analysis and country report writing of 'Annual Sentinel Surveillance for HIV Infection'; coordinating in-service training under National Rural Health Mission (NRHM) with the support of eighteen collaborating training institutions and to conduct ten weeks 'Professional Development Course in Management, Public Health and Health Sector Reforms for District Medical Officers' in collaboration with State Institutes of Health and Family Welfare and Central Training Institutions.