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Primary Health Care Management Advancement Programme

# ASSESSING COMMUNITY HEALTH NEEDS AND COVERAGE

MODULE 2
FACILITATOR'S GUIDE





**Primary Health Care Management Advancement Programme** 

# ASSESSING COMMUNITY HEALTH NEEDS AND COVERAGE

Martine Hilton
University Research Corporation

## MODULE 2 FACILITATOR'S GUIDE





University Research Corporation Center for Human Services Dedicated to
Dr. Duane L. Smith (1939-1992),
Dr. William B. Steeler (1948-1992)
and all other health leaders, managers and workers
who follow their example in the effort to bring quality health
care to all in need.



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### **Foreword**

### What is the purpose of the Facilitator's guide?

The Facilitator's guide contains a suggested workshop design for use by individuals who will help PHC managers and staff learn how to use the Primary Health Care Management Advancement Programme (PHC MAP) series. There is a Facilitator's guide for each module in the PHC MAP series.

#### What information does it contain?

Each Facilitator's guide contains instructions for conducting a workshop on one of the modules in the PHC MAP series using the information contained in the User's guide.

The instructions are arranged in one to two hour sessions. The number of sessions depends on the amount of information and/or the number of steps contained in the User's guide. The first page of each session lists session objectives, major topic headings, time required, and materials and equipment. The following pages describe the instructional activities in outline form.

The outline is divided into two columns. The right-hand column indicates what the facilitator says or does to conduct the session. The left-hand column lists the handouts, overhead transparencies, or other materials needed to support the activity. Copies of these materials, suitable for duplication, appear at the end of the session in which they are first used. Some transparencies are used in more than one session.

### How are the workshops organised?

The first session of each workshop contains activities designed to introduce the PHC MAP series and explain its importance to PHC programmes, present an overview of the workshop, explain the purpose of the module, review specific terms or concepts used in the module, and



acquaint the participants with the organisation and content of the User's guide.

The final session of each workshop contains activities designed to review key points of the User's guide, if appropriate, help participants prepare an action plan, and brings the workshop to a formal conclusion. The sessions in between present the steps required to accomplish the purpose of the module and provide an opportunity for participants to apply those steps to their own programmes.

Each workshop is designed to be given on consecutive days, uninterrupted except for breaks, meals, and rest, if the workshop is longer than one day. It is recognised, however, that situations vary and the PHC MAP modules will be used singly or in combination by individuals and organisations in the field and on university campuses. Therefore, it is expected that the workshops described in the Facilitator's guides will be adapted to fit a range of circumstances. Indeed, those who facilitate PHC MAP workshops are encouraged to make adaptations to meet the needs of participants and/or specific PHC programmes.

#### Who can be a facilitator?

Ideally, the person who serves as facilitator has training and experience in the fields of public health, management, planning, and evaluation, as well as sampling and survey design. It is recommended that this person also be skilful in working with small groups.

The facilitator should be someone from outside the PHC programme, perhaps from another agency or a university. As a person with no direct interest in the programme, the facilitator can be neutral in disagreements that may arise and help the group members resolve an issue objectively. Having an outside person as facilitator also allows the programme director, who usually has a leadership role, to contribute his or her knowledge and experience as a full participant in the work of the group.

It is also recommended that a facilitator have a full set of PHC MAP User's guides and Facilitator's guides. It is sometimes necessary, in the course of completing one module, to refer to information in another module.

### Who should participate in the workshop?

The primary audience for the PHC MAP series is the team that manages PHC programmes or other population-based health programmes in either the public or private sector. An example of a PHC management team in the public sector is the core staff of a district ranging from 100,000 to 300,000 in size of population served.



An example of a PHC management team in the private sector is the core staff of an NGO that provides PHC services to a specific population in a given geographic area. The average size of the service population may range from 40,000 to 60,000, but may be as small as 10,000 or more than 100,000. In either case, the management team should have:

- · the knowledge and skills needed to complete the steps in the module
- the time and resources required to collect and analyse the required data
- the authority to plan and implement improvements in management systems and procedures based on this analysis.

If feasible, teams from several districts or from several PHC programmes within a given NGO, may work simultaneously with one facilitator to complete a module. It is recommended that one facilitator work with no more than four teams or 20 people at one time.

#### What does the facilitator do?

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**Understands the needs of participants.** If the facilitator is working with one PHC programme, the most efficient way to gather information about participants and the programme in which they work is to meet with the PHC director to determine:

- the nature of the PHC programme (services provided, size and description
  of area served, number and type of facilities, number and qualifications
  of staff, community involvement, computer capability, strengths, major
  problems, etc.)
- · if information needs have been clearly identified
- previous staff training in management information systems or related topics
- · resources available for training (time, space, equipment)
- possibility for subsequent technical assistance to workshop participants.

Understands the content of Module 1. Read the User's guide and Facilitator's guide for Module 1 and consider options for workshop delivery.

 The purpose of Module 1 is to help participants select priority information needs and to review some basic concepts underlying management information systems. Depending on participant background, the amount of time available, and the need to establish priorities among management information needs, Module 1 can be presented in its entirety, limited to Level 1: Quick start, limited to the PHC MAP systems framework, or in



summary form as contained in the first session of the Facilitator's guides for Modules 2 through 9.

- If information needs have not been clearly identified and participants
  have no background in systems, then Module I should be presented in
  full. The selection of the next module will depend upon priorities set by
  the participants as they complete the steps in Module I.
- If information needs have been clearly identified and participants have no background in systems, then that portion of Module 1 can be added to the first session of the selected module.
- If information needs have been clearly identified and participants have a background in systems, then the overview of PHC MAP in the selected module will be sufficient.

Understands the content of the selected module. Read the User's guide and Facilitator's guide for the selected module and consider options for workshop delivery.

- Depending upon the length of the module and the availability of staff for training, the workshop sessions may be presented as described in the Facilitator's guide, or workshop sessions may be delivered at intervals (for example, every morning for a certain number of days, one session per week, or one day per week for three or four weeks).
- If follow-on technical assistance is available, the content of the module could be presented in the workshop and the application of the procedure to the PHC programme could be conducted on the job.
- Participants could plan steps in the workshop, complete them on the job, and bring the results to the next workshop session. This approach is particularly applicable to Module 2 which requires development of a questionnaire, selection of a survey sample, training of data collectors, and data collection. These steps cannot actually be carried out within the time limits of the workshop as contained in the Module 2 Facilitator's guide.
- Other options are possible depending upon the circumstances of each situation.

Determines what programme information, if any, is needed for completion of the module. For example, census data and lists of households are required to complete some of the steps in Module 3.



**Determines** the most appropriate people to attend the workshop. For example, Module 7 is best completed by those responsible for planning, training, supervision, logistics, and other management services.

**Discusses** the delivery options and participants with the PHC manager and make decisions regarding the most appropriate option and participant selection. Also determines if the needed information is available and if it is not, the alternatives for obtaining the information.

**Notifies participants of the date, time, and purpose** of the workshop and confirms attendance. Initial notice of the meeting may come from the PHC manager, with follow-up by the facilitator.

**Prepares the agenda,** using as a model the sample in Session 1 of the Facilitator's guide for the selected module.

**Inspects the room** where the workshop will be held and answers these questions:

- Is the room large enough to seat all the participants?
- Can chairs and tables be arranged in a variety of ways; all participants around one table; participants in groups of three or four at smaller tables?
- Is the lighting adequate?

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- Can temperature and humidity be controlled?
- Is there an electrical outlet for an overhead projector?
- Is a microphone necessary for everyone to hear and to be heard?
- Are toilets conveniently located?
- Is the site convenient to parking, restaurants and public transportation?
- Are supporting facilities available and convenient: duplication, word processing, computers?

**Prepares notes** to conduct the workshop using the session outlines in the Facilitator's guide for the selected module, and makes the necessary adaptations. Refer to the appropriate User's guide for content.

**Duplicates the worksheets and other handouts** as indicated in the Facilitator's guide and obtains the necessary equipment.

Conducts the workshop as planned.

Provides follow-on assistance, if appropriate.



Objectives: Participants will be able to:

- Explain at least one purpose of Module 2.
- Discuss the purposes and benefits of rapid community surveys.
- Explain the major steps involved in conducting a rapid community survey.
- Discuss some limitations of rapid community surveys.

Session outline: I. Introduction (30 minutes)

II. Overview of workshop (10 minutes)III. Purpose of Module 2 (20 minutes)IV. Module 2 User's guide (10 minutes)V. Rapid community surveys (20 minutes)

Materials: Module 2 User's guide

Handout 2-1: Agenda

Transparency 2-1: Workshop objectives Transparency 2-2: Purposes of Module 2

Equipment: Flip chart, stand, markers, masking tape, over-

head projector and screen

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### I. Introduction (30 minutes)

**Note:** Omit Section I if you have presented Module 1, or some other module, immediately prior to the presentation of Module 2.

#### A. OPENING REMARKS

- Introduce self and other staff, as necessary.
- Explain your role in the workshop.
- If you do not know the participants, ask each one to state his or her name, position title, and job location.

**Note:** If the group is larger than 6 or 8, you may wish to have them wear name tags or place cards with their names at the places where they are sitting.

- Ask each participant to complete this sentence: "As a result of attending this workshop,
   I expect . . . " and write their responses on the
   flip chart.
- When all responses have been recorded, say that you will return to this list after giving an overview of the workshop.

### B. OVERVIEW OF PHC MAP

- Explain why information is important for PHC programmes.
- Summarise PHC MAP, including: Purpose of PHC MAP Title and purpose of each module and other materials
- Make the following points about PHC MAP:
   Has been field-tested and revised to ensure usefulness to PHC programme staff.

   Modules can be used in any sequence.

Name tags or place cards

Flip chart



Surveys and other materials can be adapted to fit a particular situation.

The procedures outlined in the modules can be adopted as routine monitoring activities in a PHC programme.

 Explain why MAP is being introduced in this PHC programme.

**Note:** The remarks here should be tailored to the specific programme and should provide answers to these questions:

Why are we doing this workshop? What do we expect to achieve?

It may be appropriate for the PHC manager to make these remarks.

### II. Overview of workshop (10 minutes)

Transparency 2-1: Workshop objectives

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Handout 2-1: Agenda

- Review the workshop objectives.
- **Distribute** and **review** the workshop agenda, describing the activities that will take place to accomplish the workshop objectives.
- Review the expectations contributed by participants at the beginning of the session.

**Indicate** which ones will be met and which ones will not and why.

**Suggest**, if possible, alternatives for meeting the expectations that will not be met in this workshop.

• Explain the process to be followed in completing Module 2.

Questions will be addressed in sequence.

Facilitator will provide guidance and explanations as needed.

Participants will complete the forms provided, drawing on their experience with their programme.



Ask for questions or comments.

#### III. Purpose of Module 2 (20 minutes)

Transparency 2-2: Purposes of Module 2 • **Explain** that the purposes of Module 2 are to help managers:

Collect and analyse population-based information on health status, behaviour, and knowledge.

Assess PHC programme impact on health knowledge, behaviour, and status of target groups.

 Review the information that is helpful to have for this module and provide it, as appropriate.

An estimate of the total population to be surveyed.

An estimate of the size of the subunits of the sample.

A map of the survey area.

An up-to-date household listing of the community.

Ask for questions and comments.

### IV. Module 2 User's guide (10 minutes)

Module 2 User's guide

- Distribute a User's guide to each participant.
- Highlight key sections of the User's guide:
   Overview of PHC MAP has more details on
   its purpose and the materials included; information that has already been presented in
   summary form.

Quick start provides a procedure for conducting a survey using the *Epi Info* computer program and can be used if the questionnaires do not need to be modified.



10-step procedure for carrying out rapid community surveys.

Appendices (refer participants to the table of contents as you describe the purpose and contents of each appendix.)

• Explain that Session 2 will be devoted to Steps 1 and 2.

### V. Rapid community surveys (20 minutes)

- Explain what are rapid community surveys.
- Review example discussed in User's guide.
- Discuss some limitations of rapid surveys:
   Does not provide for detailed findings or analysis

Not designed to identify the determinants or causes of health problems

Often conducted by nonprofessional interviewers

Should be scheduled when respondents are likely to be home, to minimise bias

Does not provide exact estimates of values Can be completed most rapidly if computers are used

· Ask for questions and comments.



### **WORKSHOP OBJECTIVES:**

Participants will be able to:

- 1. Explain at least one purpose of Module 2
- 2. Explain the purposes and benefits of rapid community surveys
- 3. Explain the major steps involved in conducting a rapid community survey
- 4. Discuss some limitations of rapid community surveys



(a)

### **PURPOSES OF MODULE 2:**

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Module 2 will help PHC programme managers to:

- 1. Collect and analyse population-based information on health status, behaviour, and knowledge
- 2. Assess PHC programme impact on health knowledge, behaviour, and status of target groups



### SAMPLE AGENDA MODULE 2\*

Session 1 (1 hr, 30 mins)

Session 2 (2 hrs, 30 mins)

Session 3 (2 hrs, 20 mins)

Session 4 (2 hrs)

Session 5 (1 hr)

Session 6: (1 hr, 25 mins)

Session 7: (1 hr, 10 mins)

Introduction and overview

Specify the objectives and indicators (Steps 1, 2, and 3)

Design the data collection instruments (Step 4)

Develop the sampling procedures (Step 5)

Schedule the survey and collect the data (Steps 6 & 7)

Enter, verify, and tabulate the data (Step 8)

Report findings and develop an action plan (Steps 9 and 10)



<sup>\*</sup>For an actual presentation, substitute the appropriate clock hours in the first column.

# Session 2: Specify the objectives and indicators (Steps 1, 2 and 3)

Objectives:

...

Participants will be able to follow the directions in the Module 2 User's guide to:

- Specify the objectives of the rapid survey.
- Decide what indicators to use.
- Develop an outline for the survey report.
- Plan what information will be produced as a result of the outline.

Session outline:

- I. Introduction (10 minutes)
- Specify the objectives of the rapid survey (60 minutes)
- III. Decide what indicators to use (40 minutes)
- IV. Develop an outline (40 minutes)

Materials:

Module 2 User's guide

Transparency 2-3: Session 2: Objectives
Transparency 2-4: Information needed to

state the objectives

Transparency 2-5: KISS

Handout 2-2: Worksheet for target

groups, health services, and coverage indicators

Handout 2-3: Worksheet for specifying

rapid survey objectives



Equipment:

Flip chart, stand, markers, masking tape, overhead projector and screen



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### Session 2: Specify the objectives and indicators (Steps 1, 2 and 3)

### I. Introduction (10 minutes)

Transparency 2-3: Session 2: Objectives

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- Review the session objectives.
- Explain the two reasons for knowing about the health status of target groups: Setting goals.

Assessing programme impact on health.

### II. Specify the objectives of the rapid survey (60 minutes)

 If participants have completed Module 1, review with them the information needs they have identified.

Handout 2-2: Worksheet for target groups, health services, and coverage indicators  If participants have not completed Module 1, assist them to fill in the worksheet for target groups, health services offered, and coverage indicators.

Transparency 2-4: Information needed to state the survey objectives Assist participants to determine the information needed to state the objectives of the rapid survey, and then to draw conclusions:

Who are the users of the information?
Why is this information needed?

Which target population and PHC components does the user want to study?

What will be the geographic scope of the survey?

What are the scheduling requirements?

I-landout 2-3: Worksheet for specifying rapid survey objectives  Direct participants to complete the Worksheet for specifying rapid survey objectives.

**Ask** participants how satisfied they are with their answers to these questions.

If they are not satisfied, **direct** participants to review and restate their information needs.



User's guide

### Session 2: Specify the objectives and indicators (Steps 1, 2 and 3)

**Say** that they may also check an information need for services they do not provide, but think they should.

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- Direct participants to select one target group from Handout 2-2 and one corresponding service.
- **Direct** participants to write a specific rapid survey objective for this target group.

• Review Appendix G.2.

**Explain** the steps required to determine the sample sizes needed for a "before-and-after" comparison.

**Explain** the study design used to conduct impact evaluations.

• Ask for questions and comments.

### III. Decide what indicators to use (40 minutes)

 Ask participants to make a list of the key outcome (coverage) indicators for those services identified above, starting with the desired outcome.

**Review** "if..., then..." statements from Module 1, p. 6.

- If participants require further assistance for this step, refer them to Module 5, which lists recommended indicators for each PHC service.
- Review the purpose of other types of data which are needed in a rapid survey;

Descriptors
Characteristics
Survey management data

**\*\*** 

### Session 2: Specify the objectives and indicators (Steps 1, 2 and 3)

### IV. Develop an outline (40 minutes)

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- Review the purpose of developing a survey report outline.
- **Discuss** the general outline format to be used. **Refer** participants to the generic outline in Step 9.

**Explain** the purpose and content of each section.

**Work** with participants to adapt the outline, as necessary, to fit the objectives they have specified.

- Direct participants to construct a list of "dummy tables."
- Identify the kinds of frequency distributions and cross-tabulations the user(s) will want (see Appendix I for an illustrative list).
- Review the typical questions that should be addressed in the report and list other questions and issues.
- Emphasise the use of visual presentations.
- · Remind participants of "KISS."

Transparency 2-5: Keep it straightforward and simple



### **SESSION 2: OBJECTIVES**

Participants will follow the directions in the Module 2 User's guide to:

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- 1. Specify the objectives of the rapid survey
- 2. Decide what indicators to use
- 3. Develop an outline for the survey report
- 4. Plan what information will be produced as a result of the survey



### WORKSHEET FOR TARGET GROUPS, HEALTH SERVICES AND COVERAGE INDICATORS

Target group	Health services offered	Coverage indicators
		5 - TO - T
		Mar:



### INFORMATION NEEDED TO STATE THE SURVEY OBJECTIVES:

- 1. Who are the users of the information?
- 2. Why is this information needed?
- 3. Which target population and PHC components does the user want to study?
- 4. What will be the geographic scope of the survey?
- 5. What are the scheduling requirements?



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## WORKSHEET FOR SPECIFYING RAPID SURVEY OBJECTIVES

User			
Manager			
Board			
Donor			
Communit	.9		
Other.			
Purpose			
Planning			
	tatus/needs		
	status/needs		
Evaluation			
	coverage/effects		
nealth s	tatus/impact		
Target groups			
Children			
Women:			
Other:			
_			
PHC service(s)			
Geographic area			
Start date:			
End date:			



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Objectives:

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Participants will select and design the data collection instruments to be used.

Session outline:

I. Introduction (5 minutes)

II. Review main options (30 minutes)

III. Design or adapt data collection instrument(s) (50 minutes)

IV. Pretest the data collection instruments (20

minutes)
V. Estimate the data collection requirements (25)

minutes)
VI. Develop a code book (10 minutes)

Materials:

Module 2 User's guide

Transparency 2-6: Session 3: Objective

Handout 2-5:

Checklist for designing

questionnaires

Transparency 2-7: Pre-test the instrument

Equipment:

Flip chart, stand, markers, masking tape, over-

head projector and screen



#### I. Introduction (5 minutes)

Transparency 2-6: Session 3: Objective

- Review the session objective.
- Give an overview of session activities.

#### II. Review main options (30 minutes)

Handout 2-5: Checklist for designing questionnaires

• **Discuss** main differences and limitations of questionnaires and cluster registers.

Questionnaires: provide more information, use exact phrasing, and have pre-coded responses, but researcher must use one questionnaire for each respondent.

Cluster registers: Record all respondents from one cluster on the same page, but the number of questions is limited to size of the paper.

- **Direct** participants to select the type of survey instrument they will use.
- **Discuss** the option of selecting one target group or several:

Single target group

Several target groups

Need to draw separate samples for each target group.

Use of modular format for questionnaire.

 Explain the three options for including several topics and target groups in the same survey.

Use the sample Multiple PHC service questionnaire in Appendix C.

Combine several questionnaires from Appendix C into a single instrument.

Construct a new instrument.



 Instruct participants to select one or more target groups and, if appropriate, one of the three options for a multi-target group questionnaire.

### III. Design or adapt data collection instruments (50 minutes)

- **Remind** participants that questions should be designed to collect information on the indicators they identified in Step 2.
- Explain the difference in statistical analysis between multiple choice and dichotomous questions.
- Demonstrate how a multiple choice question can be reworded into a dichotomous question.
- Refer participants to Appendix B, which includes some other suggestions for designing questionnaires, and give these directions:

Read the section on physical layout on page 81.

Select one of the questionnaires in Appendix C and look for examples of the recommendations for physical layout.

Repeat this process for question construction, sequence of questions, precoding, and identification items.

- As participants work, circulate among them and answer questions individually.
- When all participants are done, ask for individual questions or comments.
- Ask participants to return to Handout 2-5:
   Checklist for designing questionnaires and indicate the type(s) of questions appropriate to their survey objectives.



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### IV. Pretest the data collection instrument(s) (20 minutes)

Transparency 2-7: Pre-test the instrument

- Review the steps involved in pre-testing the instrument, and the purpose of doing so.
- Ask for questions or comments.

### V. Estimate the data collection requirements (25 minutes)

- Review requirements of a two-person team.
- Explain how to estimate the number of interviewers and days it will take to complete the data collection, based on the pre-test.
- Review the formula for estimating the minimum number of "team days".
- Instruct participants to estimate the requirements for this survey, considering the number
  of teams available, the length of the questionnaire, the nature of the sample and the time
  available to complete the survey.

### VI. Develop a code book (10 minutes)

- Explain the purpose of code books and when a code book is recommended.
- Review the components of a code book.

Variable number

Name

Label

Value codes

Value labels

- Review example of a code book included in Appendix B.
- Ask for questions and comments on the design of data collection instruments.



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### **SESSION 3: OBJECTIVE**

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Participants will select and design the data collection instruments to be used



## CHECKLIST FOR DESIGNING QUESTIONNAIRES

Questionnaire Register Other:  Target group(s): Children Women Other:  Types of questions/fields: Yes/no Multiple choice Open-ended Dates
Target group(s):  Children  Women Other:  Types of questions/fields:  Yes/no Multiple choice Open-ended
Target group(s):  Children  Women Other:  Types of questions/fields:  Yes/no Multiple choice Open-ended
Children Women Other:  Types of questions/fields: Yes/no Multiple choice Open-ended
Children Women Other:  Types of questions/fields: Yes/no Multiple choice Open-ended
Children Women Other:  Types of questions/fields: Yes/no Multiple choice Open-ended
Women Other:  Types of questions/fields: Yes/no Multiple choice Open-ended
Other:  Types of questions/fields:  Yes/no  Multiple choice Open-ended
Types of questions/fields:  Yes/no  Multiple choice Open-ended
Yes/no Multiple choice Open-ended
Yes/no Multiple choice Open-ended
Yes/no Multiple choice Open-ended
Multiple choice Open-ended
Open-ended Open-ended
Dates
Ranges (e.g., 1-4 years)
Coding:
Uncoded
Pre-coded
Numerical
Alphabetical
NA: Not applicable
DK: Don't know
NR: No response
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# PRE-TEST THE INSTRUMENT:

Translation

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- Administer to small sample of intended target group
- Use actual survey interviewers, if possible
- Value of pre-testing
  - Understandable questions
  - Realistic responses
  - Logical sequence
- Revise





Objectives: Participants will review the procedures for

developing the sample.

**Note:** This session is optional if participants have a complete household listing of the survey and/or if they plan to use a computer to draw the

sample.

Session outline: I. Introduction (10 minutes)

II. Determine the size of the clusters (50

minutes)

III. Variations (60 minutes)

Materials: Module 2 User's guide

Transparency 2-8: Session 4: Objective

Handout 2-5: Cluster identification form

Flip chart, stand, markers, masking tape, over-

head projector and screen

Equipment:

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#### I. Introduction (10 minutes)

Transparency 2-8: Session 4: Objective

- Review the session objective.
- Explain that computer programs can also be used to draw cluster samples.

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#### II. Determine the size of the cluster (50 minutes)

- Explain the basic procedures for manually drawing a sample of 30 clusters.
- Discuss the definition of a population-based cluster.
- Explain that identification of the respondents in each cluster will be covered in Step 7.
- Review the importance of selecting a representative sample.
- Explain the random sampling procedure for cluster samples.

Handout 2-5: Cluster identification form

- **Instruct** the participants to use the cluster identification form from Exhibit 3 to list the subunits of the sample and their estimated population sizes.
- **Instruct** the participants to complete the cluster identification form up to Step D and then to calculate the sampling interval.
- Review each step of the example in the User's guide.

User's guide

- If actual survey information is available, instruct participants to identify the 30 clusters from their sampling list, using the steps explained, and then make any necessary revisions to the estimates they made at the end of Step 3.
- Ask for questions and comments.



#### III. Variations (60 minutes)

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 Explain that very large populations (300,000 or more) require that the procedure be done twice.

**List** large subunits (i.e., districts), and follow the procedure to identify where the 30 clusters are located.

**List** the smaller subunits in each of those districts, and make computations again to find the village where each start number occurs.

 Explain what to do if the population is 15,000 or less using the WHO example for an EPI survey on page 34.

**Note:** If the participants have fewer than 30 "natural clusters," demonstrate the sampling procedure described on page 35.

 Explain that surveys of rare events require larger clusters, and review the information needed to estimate cluster size for rare events.
 Percentage of the target group in the sample

population.

Percentage of that target group that has the attribute you are looking for (identified in Step 2).

**Review** the antenatal care survey, as an example of a rare event survey.

 Explain that more accurate results can be achieved by increasing the number of clusters and the number of respondents per cluster.

**Review** the rule-of-thumb for sampling of homogeneous and heterogeneous groups.

**Explain** that there must be a minimum of 30 clusters.

**Refer** participants to Appendix G for a computer programme that can help estimate the required sizes.

User's guide



User's guide

**Refer** participants to the worksheet for identifying attributes and estimates on page 32 in the User's guide, and **direct** them to estimate the number of households needed to find the quotas for each part of the survey.

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- Review the general rule-of-thumb for estimating minimal cluster sizes for multiple target groups, using the example for multiple target groups on page 26.
- Explain the modifications which must be made in order to measure mortality rates or ratios.

**Refer** participants to the SIZE.WK1 worksheet in Appendix G.2 to estimate the size of the sample they will need.

**Review** the vital events and health status questionnaire in Appendix C, used to collect mortality data.

**Review** the sisterhood method of measuring maternal mortality.

• Ask for questions or comments.



### **SESSION 4: OBJECTIVE**

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Participants will review the procedures for developing the sample





### **CLUSTER IDENTIFICATION FORM**

Number of clusters: Sample population size: Cluster size: Random start number:									
<b>Input data</b> Enter	Preset	Enter	Computer	Output data Preset	Computer	Sample Sites			
(A) Community name	(B) Community number	(C) Estimated population	(D) Cumulative population	(E) Selected cluster	(F) Start number	(G) Community name			
Total									

# Session 5: Schedule the survey and collect the data (Steps 6 and 7)

Objectives: Participants will review steps and forms needed

to schedule and conduct the survey.

Session outline: I. Introduction (5 minutes)

II. Schedule the survey (20 minutes)

III. Collect data (35 minutes)

Materials: Module 2 User's guide

Transparency 2-9: Session 5: Objective

Transparency 2-10: Activities in scheduling the

survey

Transparency 2-11: Events to be scheduled

Transparency 2-12: Written instructions

Equipment: Flip chart, stand, markers, masking tape, over-

head projector and screen

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### Session 5: Schedule the survey and collect the data (Steps 5 and 7)

#### I. Introduction (5 minutes)

Transparency 2-9: Session 5: Objective • Review the session objective.

#### II. Schedule the survey (20 minutes)

Transparency 2-10: Activities in scheduling the survey Transparency 2-11: Events to be scheduled

- Explain the major activities in scheduling the survey.
- **Review** the events that need to be scheduled based on estimates made in Step 5.
- · Prepare the management forms.

**Explain** the purposes of the management forms.

**Refer** participants to Appendix H for examples of survey management forms for single and multiple target groups.

Recruit and train the interviewers.

**Refer** participants to Appendix E for training and supervision guidelines.

**Review** the points to be included in written instructions.

Transparency 2-12: Written instructions

#### III. Collect data (35 minutes)

- Remind participants that in Step 5 they identified clusters in the population, and explain that in this step, they will select households from within those clusters.
- Explain the random sampling procedures for selecting households.

Use an up-to-date household listing.

Do a quick enumeration of households if the community is small and there is no listing.



### Session 5: Schedule the survey and collect the data (Steps 5 and 7)

**Explain** the EPI method as a third alternative.

**Explain** that oversampling (10 households, instead of 7) will compensate for refusals, etc.

- Remind participants that a separate random sample must be drawn for each target group selected and for multiple target groups.
- Explain that if a respondent is not at home, at least two revisits should be attempted before replacing them with the next available respondent.



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### **SESSION 5: OBJECTIVE**

Participants will review steps and forms needed to schedule and conduct the survey



# ACTIVITIES IN SCHEDULING THE SURVEY

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- Finalise data collection schedule
- Prepare survey management forms
- Recruit and train interviewers



# EVENTS TO BE SCHEDULED

- Recruitment and training
- Questionnaire production
- Logistical arrangements
- Checking and verifying procedures
- Data entry
- Analysis
- Report preparation



# WRITTEN INSTRUCTIONS

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- Household selection
- Call back visits: when, how often
- Checking completed forms
- What to do about a mistake



**Objectives:** Participants will be able to follow the procedures in the User's quide to manually:

Summarise the data that have been collected.

• Produce some simple tables.

**Note:** This session is optional if participants plan to use Epi Info or some other computer programme for this step.

Session outline: I. Introduction (5 minutes)

II. Manual data entry (20 minutes)

III. Verifying and cleaning the data (20 minutes)

IV. Tabulation (40 minutes)

Materials: Module 2 User's guide

Transparency 2-13: Session 6: Objectives

Equipment: Flip chart, stand, markers, masking tape, over-

head projector and screen

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#### I. Introduction (5 minutes)

Transparency 2-13: Session 6: Objectives

- Review the session objectives.
- Explain that this step may be skipped if the participants will use Epi Info, or some other computer program for data entry, verification, and tabulation.

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#### II. Manual data entry (20 minutes)

- **Review** and explain the important steps in manual data entry.
- Summarise the data that have been collected.

If cluster registers were used, compile the summary tabulations from each of the 30 registers on a summary form. **Review** the example in the User's quide.

If questionnaires were used, summarise and tabulate the data from a cluster on a form similar to the cluster register, or develop a summary form with a column for each interview. **Refer** participants to Appendix I, which includes two computerised forms for this purpose.

Produce some simple tables.

#### III. Verifying and cleaning the data (20 minutes)

- Explain that verification of data ensures that no mistakes were made in summarising and transferring the original data.
- Explain a simple verification procedure.
   Two separate teams independently summarise and transfer the data.



Results are compared and discrepancies checked.

Explain that cleaning the data involves correcting mistakes in the original interview forms and summary sheets.

**Review** each step of the data entry process to find the source of the mistake.

Review the mistakes typically found:
using the wrong code
leaving a question mark
misinterpreting a written code
skipping to the wrong question
entering an answer in the wrong space

#### IV. Tabulation (40 minutes)

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- Review the steps for manual tabulation.
- Summarise counts.

Based on totals in the Summary Form and report outline prepared in Step 3, decide what information to prepare.

Fill in data for the "dummy tables".

Review Appendix I, which includes an illustrative list of frequency distributions and cross-tabulations.

Compute averages.

Perform the division of the data of the continuous variables entered in the summary table.

Make sure that the correct denominator is used.

Compute coverage percentages.

Divide the number of people covered by the number of eligible respondents.

**Multiply** that amount by 100 to convert into a percentage.



Prepare frequency distributions.

**Explain** that frequency distributions are used to determine the numbers and percentages of people who use different services, use different providers, have different reasons for accepting a service, etc.

**Divide** the number of people who use a specific source, provider, etc., by the total number who received that general category of service.

**Multiply** that amount by 100 to convertinto a percentage.

**Demonstrate** each of these calculations using the examples in the User's guide on page 46.

 Explain that more detailed tabulations (and statistical analysis) can be done with the use of a computer program.

**Refer** participants to Appendix I for examples of simple computerised tabulation procedures.

**Refer** participants to Appendix I.3 for examples of a program for computing confidence intervals.



### **SESSION 6: OBJECTIVES**

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Participants will be able to follow the procedures in the User's guide to manually:

- 1. Summarise the data that have been collected
- 2. Produce some simple tables





# Session 7: Report findings and develop an action plan (Steps 9 and 10)

Objectives: Participants will:

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 Review main issues for analysis and interpretation of the data collected.

· Develop an action plan.

Session outline: I. Introduction (5 minutes)

II. Analysis and interpretation (15 minutes)

III. Reporting (20 minutes)

IV. Action plan (20 minutes)

V. Conclusion (10 minutes)

Materials: Module 2 User's guide

Transparency 2-14: Session 7: Objectives
Transparency 2-15: Types of interpretation
Handout 2-6: Worksheet for developing

action plans

Equipment: Flip chart, stand, markers, masking tape, over-

head projector and screen

#### Session 7: Report findings and develop an action plan (Steps 9 and 10)

#### I. Introduction (5 minutes)

Transparency 2-14: Session 7 objectives

- Review the session objectives.
- Explain that this step should be based on the most important indicators, questions, and issues which were identified in the report outline constructed in Step 3.

#### II. Analysis and interpretation (25 minutes)

Transparency 2-15: Types of interpretation  Review and explain the types of interpretation that should be applied to the completed tables

Descriptions present the facts, without the interpretation of the writer.

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Performance appraisals compare the descriptive data with performance expectations or standards.

Explanations about the frequency distributions can stimulate staff discussion on the observed behaviour of the target population. The procedures in Modules 6 and 7 (Assessing the quality of services and Assessing the quality of management) can help gather some explanatory data.

Implications address what future actions can or should be taken by the programme, given the findings of the survey.

Issues pending further study identify questions which cannot be answered with the available data, and that might be investigated with a second survey or one of the other modules.



### Session 7: Report findings and develop an action plan (Steps 9 and 10)

- Remind participants that analysis must be done on the entire sample, and that analysis of subsamples to compare groups requires separate rapid surveys for each group.
- Ask for questions and comments on interpretation of findings.

#### III. Reporting (20 minutes)

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- Ask participants to review the outline they prepared in Session 2 and decide if they wish to make any modifications.
- Discuss report format options.

Present findings from each question in the sequence followed in the questionnaire. This is the easiest way to prepare a report.

Present major findings first.

An oral report, if given, should include a few key tables and graphs.

Keep the audience in mind when preparing the report.

#### IV. Action plan (20 minutes)

Handout 2-6: Worksheet for developing action plans

- Explain that the development of an action plan should be a separate step and that it should be introduced as part of the study objectives.
- Review and explain the main questions answered in an action plan.

What are the specific actions to be taken as a result of the study?

Which specific people will be responsible for each action?



### Session 7: Report findings and develop an action plan (Steps 9 and 10)

When will these actions start and/or be completed?

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Where will the actions take place? How will the procedures be followed?

What resources will be made available to carry out the actions?

- Explain that specific details of these questions can be worked out after the formal report is ready.
- Ask for final questions or comments on this session or the workshop as a whole.

#### V. Conclusion (10 minutes)

- Review the workshop objectives.
- Review the list of participant expectations you recorded on a flip chart in Session 1 and ask participants to indicate the extent to which they were met.
- Thank participants for their attention and hard work.



### **SESSION 7: OBJECTIVES**

Participants will:

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- 1. Review main issues for analysis and interpretation of the data collected
- 2. Develop details of their action plan



# TYPES OF INTERPRETATION

- Descriptions
- Performance
- Explanations
- Implications
- Issues needing further study



# WORKSHEET FOR DEVELOPING ACTION PLANS

Action to take (What)	Responsible (Who)	<b>Dates</b> (When)	Other (Where, how, resources)



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Dr. Neerai Kak

Ms. Lori DiPrete Brown

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Ms. Mary Millar

## MODULE 2 FACILITATOR'S GUIDE

