

Primary Health Care Management Advancement Programme

# PLANNING AND ASSESSING HEALTH WORKER ACTIVITIES



MODULE 3
USER'S GUIDE



In Bangladesh, health workers use a major share of their time to train other women about measures they can take to promote health and prevent disease

Photo by Jean-Luc Ray for AK

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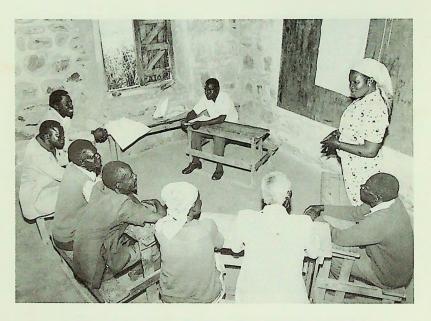
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Dedicated to
Dr. Duane L. Smith (1939-1992),
Dr. William B. Steeler (1948-1992)
and all other health leaders, managers and workers
who follow their example in the effort to bring quality health
care to all in need.





In Kenya, a community health nurse trains and helps plan the work of the community health volunteers

Photo by Jean-Luc Ray for AKF



# An overview of PHC MAP

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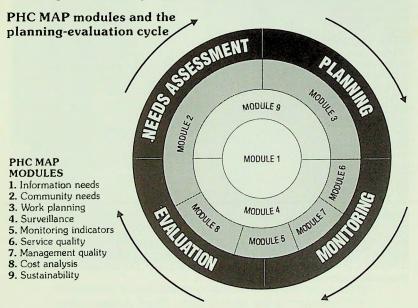
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The main purpose of the Primary Health Care Management Advancement Programme (PHC MAP) is to help PHC management teams collect, process and analyse useful management information.

Initiated by the Aga Khan Foundation, PHC MAP is a collaborative programme of the Aga Khan Health Network<sup>1</sup> and PRICOR.<sup>2</sup> An experienced design team and equally experienced PHC practitioner teams in several countries, including Bangladesh, Chile, Colombia, the Dominican Republic, Guatemala, Haiti, India, Indonesia, Kenya, Pakistan, Senegal, Thailand and Zaire, have worked together to develop, test and refine the PHC MAP materials to make sure that they are understandable, easy to use and helpful.

PHC MAP includes nine units called modules. These modules focus on essential information that is needed in the traditional management cycle of planning-doing-evaluating. The relationship between the modules and this cycle is illustrated below.



- The Aga Khan Health Network includes the Aga Khan Foundation, the Aga Khan Health Services, and the Aga Khan University, all of which are involved in the strengthening of primary health care
- Primary Health Care Operations Research is a worldwide project of the Center for Human Services, funded by the United States Agency for International Development



Managers can easily adapt these tools to fit local conditions. Both new and experienced programmers can use them. Government and NGO managers, management teams, and communities can all use the modules to gather information that fits their needs. Each module explains how to collect, process and interpret PHC-specific information that managers can use to improve planning and monitoring. The modules include User's guides, sample data collecting and data processing instruments, optional computer programs, and Facilitator's guides, for those who want to hold training workshops.

The health and management services included in PHC MAP are listed below.

#### Health and management services

HEALTH SE	MANAGEMENT SERVICES	
GENERAL PHC household visits	OTHER HEALTH CARE Water supply, hygiene and	Planning Personnel management
Health education	sanitation School health	Training Supervision
MATERNAL CARE	Childhood disabilities	Financial management
Antenatal care	Accidents and injuries	Logistics management
Safe delivery	Sexually transmitted diseases	Information management
Postnatal care	HIV/AIDS	Community organisation
Family planning	Malaria Tuberculosis	
CHILD CARE	Treatment of minor ailments	
Breast feeding	Chronic, non-communicable	
Growth monitoring	diseases	
Nutrition education		
Immunization		
Acute respiratory infection Diarrhoeal disease control Oral rehydration therapy		

Several Manager's guides supplement these modules. These are: Better management: 100 tips, a helpful hints book describing effective ways to help managers improve what they do; Problem-solving, a guide to help managers deal with common problems; Computers, a guidebook providing useful hints on buying and operating computers, printers, other hardware and software; and The computerised PRICOR thesaurus, a compendium of PHC indicators.





Community women are a powerful force for improving family and community health when they are well-trained, supervised and logistically supported

Photo by Jean-Luc Ray for AKF



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A number of other individuals deserve special thanks for their contributions to this module. Among these are Neeraj Kak and Maria Franscisco from the Center for Human Services and Sohail Mushtak from the Aga Khan University. Special acknowledgement and deep appreciation goes to Dr. Colin De'ath, Bangkok, Thailand for his extra efforts during the final edits on this edition, all the work at odd hours he has put in on the rest of the series and his continual encouragement

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Field tests:	Countries, participating organisations, field test facilitators
India	Junagadh PHC Project, Gujarat, and the Sidhpur Sustainable Health System Project, Gujarat; Aga Khan Health Service, India; Facilitators: Neeraj Kak, Center for Human Services, Vijay Moses, Aga Khan Health Service, India
Kenya	Mombasa PHC Programme; Kisumu PHC Programme; Facilitators: Maria Francisco, University Research Corporation/Center for Human Services; Inaam-ul-Haq, Aga Khan University, Pakistan



# Quick start

#### Basic work planning

You may already have done some of the work planning activities described in this module. To find out - and to identify the ones that interest you most - review the following Quick start summary. Check off the sections that you want to read and begin with these. Most of these sections include worksheets and sample forms that can help you develop work planning procedures quickly.

#### Step 1: Describe and map the catchment area

Review this step if you need to: 1) define and map the physical boundaries of your catchment (service) area; 2) describe the health services and population contained in that area; and/or 3) develop a register of households and/or individuals located in the area.

#### Step 2: Identify community needs and available resources

Review this step if you need to: 1) identify community health problems and needs; 2) assess the PHC services currently provided by other health providers in the area; and/or 3) identify health resources that you can call on in the area.

#### Step 3: Set priorities and identify high-risk groups

Review this step if you need to: 1) identify priority health problems that your programme will address; 2) set up a system for assessing risk factors in your area; 3) identify your primary target groups; 4) identify high-risk groups and individuals in your area; and/or 5) establish a system for monitoring high-risk groups.

#### Step 4: Plan PHC activities

Review this step if you need to: 1) identify strategies for providing needed health services to your target groups; 2) develop a plan for community-based and outreach services; and/or 3) develop a plan for clinic-based services.

#### Step 5: Develop job descriptions and recruit staff

Review this step if you need to: 1) develop a role and task list for your staff; 2) prepare job descriptions for your staff; and/or 3) make sure that staff job descriptions will produce desired programmatic results.

#### Step 6: Develop individual work plans and schedules

Review this step if you need to: 1) develop individual work plans for each staff member; 2) assign work to fit priority health needs and the needs of high-risk groups; and/or 3) schedule work so that staff have a reasonable work load and can complete their assignments on time.

#### Step 7: Assess job performance

Review this step if you need to: 1) set up a performance-based system for assessing staff work; 2) set up procedures to compare planned with actual work performance; and/or 3) ensure that staff performance is contributing to programme objective.





In North Pakistan a health worker administers an oral dose of iodinated oil for prevention of iodine deficiency disorders, such as goitre

Photo by Pierre Claquin for AKF



# Introduction

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# Planning and assessing health worker activities

One of the major objectives of most PHC managers is to find ways to increase coverage of the target populations with basic health services. One of the major challenges is finding simple, yet effective procedures for getting PHC staff to do that. This module was designed to address this problem.

The overall objective of Module 3 is to help your staff develop realistic work plans that will lead to improved coverage, early identification and attention to high-risk women and children, and will not require additional effort to manage.

To do this, you will need to set up a system that identifies your various target populations, determines their health needs, sets priorities among those needs, and then assigns staff to provide services on a selective basis. The heart of this system will be information. The system must provide adequate information so that you and your health workers can continually assess needs, adjust plans accordingly, monitor results, reassess needs, readjust plans, and so on. The "system" described in this module is based on some of the best features of several PHC programmes that have been successful in that respect. Through the use of maps, simple registers, risk analyses, prompt feedback, flexible work plans, living job descriptions, supportive performance appraisals, and other simple tools, these programmes have been able

Set up a system



to increase coverage, improve health status, and raise job satisfaction at the same time.

Module 3 picks up where Module 2 left off. Community surveys provide a broad picture of health needs and program effectiveness in meeting those needs. Module 3 shows how to assess individual needs and develop specific work plans to enable both clinic staff and field workers to meet those needs.

The procedures described in this module do not require sophisticated computers or advanced training in management. All of the procedures can be done by hand, and many are designed to be used by front line field workers (CHWs, nurses, midwives, field doctors, and the like). As with the other PHC MAP modules, these tools are illustrative and you are encouraged to adapt them to fit your specific needs.

# How Module 3 can help you

This module is designed to help you to plan your PHC activities. For example, you can use this module to;

- Identify the populations/individuals to be served.
   Step 1 will help you to define and describe your programme's catchment area, to develop a map of the area, and to compile information for a household register from a community/village.
- Identify health problems, risk factors, and available resources as well as assess existing health services. Step 2 will help you to identify health problems, demographic factors, and other risk indicators. It will also help you to assess health services and other resources available to you.
- Identify those in need of the various types of care and target high-risk clients for intensive care.
   Step 3 will help you in developing risk factors for the various PHC components. You can use the risk factors to identify individuals or households at risk of getting diseases you are trying to protect them from, and to focus your efforts on these high-risk groups.

How each step will help you



- Plan PHC activities. Step 4 will help you to plan outreach and clinic-based services to accommodate community needs with available PHC resources.
- Identify needs for additional staff and resources.
   Step 4 can also help you to identify additional resources that would be needed to improve coverage and to reach those most in need.
- Improve health worker efficiency. The module will show you and your staff how to set priorities and to develop work plans for their day-to-day activities, to monitor their own performance, and to manage their time effectively. The tools can help your staff accomplish more with no additional effort.

Developing work plans

- Develop job descriptions and individual work plans. Steps 5 and 6 show you how to develop job descriptions and individual work plans that will help your programme meet its overall objectives.
- Review performance, monitor and support health worker activities, and give them constructive feedback. Step 7 shows how to monitor staff performance in reaching individual, community and programme objectives. And it shows how to set up a system to provide objective and constructive feedback to your staff.

#### Some limitations of the module

The module does not deal with the overall planning of a PHC programme. Rather, its purpose is to assist the manager and the team in planning their activities so that the work that each person does contributes directly toward the larger goals of the programme.

The module does not discuss specific ways to involve communities in the planning process. However, that is encouraged, and it is not difficult to see how they could be involved in most of the steps, from assessing needs to identifying high-risk children, to providing feedback on CHW performance.

The module is not a comprehensive personnel management manual either. However, it does describe ways to focus

the health worker on those tasks that will lead to better programme performance.

# How to use this guide

Assessing needs of the target population This guide provides instructions for planning and assessing your programme's PHC and health worker activities. By following the instructions and using the worksheets, you should be able to identify the target population, to assess its needs, to plan PHC activities, to determine staffing requirements, to develop individual job schedules, and to evaluate worker performance. You may skip a step or sub-step if you think that the activity is already being undertaken in your programme. However, you may still want to review the skipped step to see if the existing process can be improved. The steps and sub-steps for planning and assessing PHC and health worker activities are summarised on the following page.



the health worker on those tasks that will lead to better programme performance.

# How to use this guide

Assessing needs of the target population

This guide provides instructions for planning and assessing your programme's PHC and health worker activities. By following the instructions and using the worksheets, you should be able to identify the target population, to assess its needs, to plan PHC activities, to determine staffing requirements, to develop individual job schedules, and to evaluate worker performance. You may skip a step or sub-step if you think that the activity is already being undertaken in your programme. However, you may still want to review the skipped step to see if the existing process can be improved. The steps and sub-steps for planning and assessing PHC and health worker activities are summarised on the following page.



# Steps in planning and assessing health worker activities

#### Step 1: Describe and map the catchment area

Define the catchment area
Describe the catchment area
Make map(s) of the catchment area
Make a register of communities/villages
Make a household register

# Step 2: Identify community needs and available resources

Select indicators
Health problem indicators
Demographic indicators
Risk factors indicators
Existing health services and available resources
Identify source(s) of information
Develop a survey instrument

### Step 3: Set priorities and identify high-risk groups

Set priorities among health problems Determine the risk factors Set priorities for risk factors identified Identify main target and high-risk groups Use risk factors to monitor high-risk groups

# Step 4: Plan PHC activities

List services required, identify strategies and activities Identify and plan outreach and community-based activities

Determine number of units to be covered Determine optimal time interval for each activity



Determine resource requirements

Compare resource availability with requirements and identify an optimal number of visits

Develop tools to plan and monitor communitybased and outreach activities

Identify and plan clinic-based activities

Determine client load

Determine staff capacity

Determine resource requirements

Determine availability of resources

Compare availability with need and identify an optimal solution

Develop tools to plan clinic-based activities

#### Step 5: Develop job descriptions and recruit staff

Develop role, task and skills list

Prepare job descriptions and do a feasibility check Post job announcement, recruit, screen, and select candidates

Agree with selected candidates on role and task expectations

# Step 6: Develop individual work plans and schedules

Advantages of work plans Principles of good work plans Scheduling of work

#### Step 7: Assess job performance

Principles of performance assessment Continuous performance assessment Formal performance assessment

If your programme is new, you will need to go through the following steps. This module can be used for some of these. Other PHC MAP modules can help you with those steps not included in this module.



Steps	Module 3	Other modules
1. Define catchment area and target group	1	1
2. Identify community needs	2	2
<ol> <li>Set priorities among health problems and identify high-risk groups</li> </ol>	3	2,4
4. Define goals and objectives		1
<ol><li>Identify services/components and strategies</li></ol>		1
6. Plan activities	4	
7. Plan resource needs	4	8,9
8. Develop job descriptions and recruit staff	4	
9. Develop work plans and schedules	5,6	
10. Implement and monitor progress	7	4,5,6,7
11. Assess job performance	7	5,6,7
12. Assess programme performance	7	4,5,6,7,8,9
13. Evaluate		2,4,8,9

# Step 1: Describe and map the catchment area

#### Skip this step if:

- Your catchment areas are adequately defined and mapped
- You already maintain adequate registers of households and/or individuals in these areas

#### Review this step if:

- You need to define and map the physical boundaries of the catchment area(s) and to describe the services and population contained within it
- You need to define and develop a register of households and/or individuals located in these catchment area(s)

The purpose of this step is to help the manager to define and describe the PHC catchment area or the geographical area surrounding a health facility and the target population it serves. The PHC manager needs to understand the



ecology and economy of the local area because both will be reflected in the health needs of the catchment population. In each community, a detailed household listing will have to be developed to identify women, children and other at-risk individuals who may seek or require health services from time-to-time. The sub-steps involved are described below.

- · Define the catchment area(s)
- Describe the catchment area(s)
- Draw a map of the catchment area(s)
- · Make a register of villages, communities
- Make a household register

#### Define the catchment area

If you have not already done it, this step can be a major activity, but it is worth it. Most PHC programmes do some sort of assessment at the onset. It is a good opportunity to involve key members of the PHC team and the community.

The catchment area is defined as the geographical area surrounding a single health facility or group of health facilities and includes the target population living within it. Catchment areas may be determined by the type of PHC service or by geographical or administrative boundaries. For example, the catchment area of a secondary hospital may be a district serving a relatively large population; a community health centre serving the health needs of one sub district of only five to ten villages; and at the lowest level, a community-based worker with a village or sub-division of the village as part of his or her catchment area.

Thus, the boundaries of the catchment area can be defined by:

- an administrative unit which can be based on area and/or population, e.g., district, sub-district, village, etc;
- a circle of a fixed distance, e.g. five or eight km around a health facility;
- an area which includes the target population for a specific PHC service, a socio-economic group, or a geographically defined population; or

Defining and describing PHC catchment area



 any practically defined working area, which may include services offered in neighbouring areas or which is based on an assessment of utilisation patterns.

A catchment area for a larger PHC programme can be divided into sub-catchment areas for different types of PHC services. For example, the catchment area for a programme's EPI component may be larger than the one for basic curative care if the neighboring health centre does not have electricity so it can provide surgical services. The sub-catchment areas may also be defined by the area where outreach MCH services will be most concentrated. (It may not be possible to provide outreach services to a large area because of transportation problems.)

The following is an example of a completed worksheet that can help you define your catchment area. A blank worksheet is provided in Appendix E.

Divide into sub-catchment areas

#### Exhibit 1: Worksheet for defining catchment area

a) Select criteria to define the	boundaries of your catchment area:	
Fixed distance of	kms around health facility	

- X Administrative unit (specify level and name) Panggang (sub district)
  in Gunung Kidul (district)
- PHC service target group, socio-economic or geographically defined population
  - A practically defined population (please specify)

#### b) Define sub-catchment areas for different services:

\_\_\_\_ Curative care X\_ MCH

\_\_\_\_ Family planning

\_X\_ TB

#### Describe the catchment area

Following the definition of the catchment area, the PHC team must identify the target population residing in the catchment area. For example, at the village level, households or individuals will be identified as the target population for specific PHC components, while at the district level the identification will only include communities. The identification process may involve gathering data from existing sources, such as administrative records or household registers (described later in this module), or may require the



collection of data through community surveys (Module 2 and Step 2 of this module).

Information for a village or community level catchment area should include:

- · number of households, or individuals residing in the area
- composition of households (or characteristics of individuals, including age, sex, ethnic group, mortality, morbidity, disability)
- such socio-economic factors as occupation, income, educational level
- utilities (water, sanitation facilities, electricity, telephone, TV)
- social activities
- · size and terrain of area, status of roads and houses

### Exhibit 2: Worksheet for describing catchment area

Level	Information	Data sources
District level	No. of facilities	Government offices
	Name of facilities	Government offices
Facility level	Name of villages	Village registers
	No. of villages	Village registers
	Location of facility(s)	Village registers
	Size and terrain of area	Observation
Village level	No. households	Household registers
	Position of HHs	Household registers
	Source of income	Community surveys
	Educational levels	Community surveys
	Religion/ethnicity	Community surveys
	Status of houses/roads	Interviews and observations
	Distance to health facility	Interviews and observations

For larger catchment areas, you may need to aggregate data for several villages or communities and include such additional information as:

- road networks, distances, transport availability and cost
- social differences among populations (e.g., female mobility)
- industry, agriculture, and environment
- · listings of communities/villages



The preceding is an example of a worksheet that can help you to describe your catchment area. A blank worksheet can be found in Appendix E. The example illustrates the types of information that may be needed to determine target groups and to plan PHC activities for the sub-district catchment area.

### Make map(s) of catchment area

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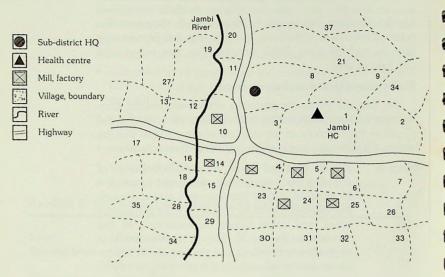
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You can use maps for planning work assignments, conducting surveys, monitoring services, and determining the physical parameters of service coverage. Maps can be drawn for different levels of the service delivery system:

Map A At the district level, showing boundaries of sub-districts and facility catchment areas, the location of district headquarters and surrounding villages, health facilities and their catchment areas, and other major infrastructure in the district (see Exhibit 3). Map A is often available at government offices and can be used to illustrate an overall scheme for the planning of a PHC programme.

Exhibit 3: District level map - Map A Pulau District HO Jambi Hospital Health centre Railroad HHHHHH Barat Timor River Highway Kupang + Utara Tengga Jango

Exhibit 4: Health facility level map - Map B



Map B At the health facility level, showing the catchment area for a single health facility with surrounding communities/villages (see Exhibit 4). Map B is particularly important for planning activities for a community-based health care programme or outreach service. Several maps can be made of the catchment area for a health facility which illustrate sub-catchment areas for different target groups or PHC services.

Map C At the community/village level, showing a single community or village with roads, houses, services such as a health post or private clinic, water sources, waste disposal areas, and schools (see Exhibit 5). If the houses are assigned a number before hand, then these numbers can also be put on the map.



# Exhibit 6: Village register

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Dist	rict: Pakl	howal		S	ub-district: J	uhu				
S. No	Village	No. of house- holds	Population	Local leaders	Health volunteers	Health proble	lealth problems		Public transport available	Other remarks
						Priority	Being addressed			
1.	Anderi	150	1,000	Nasir	Nazima	Poor sanitation	yes	10	yes	Education needed
2.	Balowai	20	750	Azız	Noor	Low	yes	15	no	CHW inactive
3.	Sapur	172	1.500	Kasım	Roshan	TB, parasites	no	5	yes	Education needed
4	Deogha	93	1,200	Ramsan	Amina	Low immunization, MCH	yes	8	yes	Need to train local TBA
5	Jalma	210	1.075	Mehndi	Sumi	Low	yes	2	yes	Household reg. to be updated
6	Hamsa	95	450	Rustam	Naseem	Hepatitis B	no	5	yes	Education needed
7.	Sahan	80	900	Munwar	Bano	Low Immunization	yes	3	yes	Update HH reg. training CHW
8										
9										
10										
11	1									
12										
13										





### Exhibit 7: Household register

Sector # / house # / household #: 02:90/1/2 Name of head of household: Mohammad Hossain

HH income: 3000

Registration date: 23/07/1989 Occupation: Gov't service Centre name: Grax

ID No	Name	Father's/ husband's name	Date of birth/age*	Sex M/F	Chronic health problem	Date of Death	Migration out	Remarks
D1	Hasan Ali	M Ali	-1926	М	TB			
D2	Bibi Masyam	Hasan Ali	11-1929	F				
F	M Hussain	Hasan Ali	30-09-1948	М				
М	Sakina	M. Hossain	23-06-1950	F				
C1	Sikundar	M. i-lossain	01-03-1967	М				
C2	Laila	M. Hossain	24-04-1968	F			26-06-1990	Left for Saudi Arabia
СЗ	Zainab	M Hossain	19-05-1970	F		20-09-1970	05-04-1989	Left family after marriage
C4	Khalid	M. Hossain	21-01-1974	М				
C5	Seema	M. Hossain	15-02-1976	F				
C6	Zahail	M. Hossain	17-09-1980	М				
C7	Naila	M. Hossain	30-07-1984	F		15-08-1984		
C8	Aaman	M. Hossain	06-02-1986	М				
					Risk profile of household		Score if present	Score
					At least 1 child < 1 y	r	I	
					>2 Infant deaths in p	past 5 years	2	
					>2 children < 5 yrs		1	
			Illiterate women		2	2		
					Restriction on mobil	ity of women	1	1
					Presence of TB case		1	1
					Low family income		1	
· List olde	st member first an	id youngest last			Improper /no use of	toilet facilities	1	

as education, income, access to water and sanitation, etc. An example of a simple standard household register and the types of information it should contain is presented in Exhibit 7.

You can determine the size of the target population for specific PHC services by compiling information from these registers. Using these registers, you should be able to calculate the number of children who need immunization, the number of women who need antenatal care, etc. in a given year. However if you are unable to develop household registers in some areas because of the dispersion of villages and communities, you should estimate the size of the target population. For example, demographic survey or census data of an area or country can be used to estimate the proportion of people in the various age groups and these proportions can be applied to the total population to estimate the population age pyramid of the area.

**Example:** A demographic survey of rural Pakistan provided the following overall estimates for the area:

- < 5 children = 15% of the total population
- $\bullet$  < 2 children = 6% of the total population
- married women = 20% of the total population
- pregnant women = 15% of married women

These percentages were multiplied by the population in the catchment area of the *Dhabeji* health facility (about 25,000). Thus the estimated target population

- < 5 children =  $25,000 \times .15 = 3,750$
- < 2 children =  $25,000 \times 06 = 1,500$
- married women =  $25,000 \times .2 = 5,000$
- pregnant women =  $5,000 \times .15 = 750$

# Step 2: Identify community needs and available resources

### Skip this step if:

- Your programme has already prioritised health problems and identified high-risk groups
- You have already completed Module 1 and/or Module 2 and have identified community needs



#### Review this step if:

- · You have not identified community needs
- · You have not assessed existing health services
- You wish to determine available resources

Purpose of this step

The purpose of this step is to identify community needs based on information from records and surveys as well as from interviews with community members to determine their perceptions. In addition, this step also addresses the identification of resources that will help in providing better service. These needs and available resources can be ascertained from;

- the health status of the community in terms of occurrence of disease and death,
- factors that contribute to these outcomes, e.g., crowding, sanitation, lack of water supply, illiteracy,
- the quality and adequacy of existing health services being provided in the area,
- available resources, such as facilities, manpower, transportation, etc., needed for the effective and efficient provision of health care.

Sub-steps to identify community needs and available resources are described below.

- Select indicators
- · Identify source(s) of information
- Develop a survey instrument

**Step 1** has helped you to define and describe the catchment area, to develop an area map, and to compile information for a household register from a community/village. This information will help you when you proceed to Step 2.

**Step 2** will help you to collect the necessary data to determine the health needs of the community and the existing resources which could be used for the provision of PHC services.

#### Select indicators

The first thing that you will need to do is to determine which indicators are necessary to assess the health status of the community. This information will help you proceed,



together with the PHC team and the community, in setting priorities and determining strategies for the provision of effective and equitable health care.

These indicators fall into two broad categories: 1) indicators that reflect the health status of the population and 2) indicators that reflect the perceived needs of the community, which can often prove contrary to what other data will show.

A community's perceived needs are often different from what other data indicate. The information which you will need to select pertain to the following:

- 1. Health problems
- 2. Demographic information
- 3. Risk factors

4. Existing health services and available resources.

Health problem indicators. This category deals primarily with statistics of disease (morbidity) and death (mortality). You need to characterise health problems in terms of WHO is affected, WHEN the person was affected, and WHERE it happened. These characteristics can be translated into indices to help you analyse the current situation. They also serve as a baseline with which to evaluate future PHC interventions. In addition, this information can be presented in the form of rates (see Module 5 for details of rates, formulae, and examples) to facilitate comparisons over time and between geographical areas. Examples of these indicators are:

- simple frequencies of those afflicted by a particular disease
- community perceptions of what they consider to be major health problems
- prevalence rates, preferably by age and sex
- mortality rates, e.g., crude death rate (CDR), infant mortality rate (IMR), under 5 child mortality rate, cause-specific death rates, etc.

If you are interested in setting up a permanent (or temporary) surveillance system to monitor changes in morbidity and mortality, see Module 4.

Examples of indicators



Break data down by age groups and sex **Demographic indicators**. This category includes population composition, i.e., the total number of people within the community, preferably with age and sex distribution. Since both age-sex distributions and sex ratios are reflected in reproductive behaviour, disease exposure rates, and death rates, both factors need to be considered in determining community needs. Data should be broken down by age group. Useful categories include: less than 1 year (infants), children aged 1-4 years, persons between the ages of 5-14, 15-44, and those 45 years and above.

Data on the number of births and deaths are also important. Birth data are needed to determine the fertility level of the area, whereas the number of deaths reflects the health status and health services of the area. The more important rates are:

- · Crude birth rate (CBR)
- Crude death rate (CDR)
- Total fertility rate (TFR).

Population growth can be calculated from the rate of natural increase (births minus deaths) and the net migration (migration-in minus migration-out). It calls the attention of a PHC team to future problems due to an increase in population.

A note of caution: you need to have a fairly large population - at least 50,000 - to calculate accurate rates. See Module 2 or Module 4 for a discussion.

Risk factors. A risk factor is a characteristic pertaining to individuals or groups that is associated with an increased chance of an unwanted outcome such as illness or death. Risk factors may either indicate the possibility of such an outcome or directly cause it and form part of the chain leading to illness or death. These risk factors may be amenable to change in which case the incidence of a disease will drop. However, some risk factors, such as age, cannot be changed and, therefore, require greater care (see Appendix B for details on risk factors).

The impact a certain risk factor may have on determining an individual's or community's health status can be measured by comparing the likelihood of the unwanted outcome

indicators are necessary

Determine

which



in the **presence** of the risk factor with the likelihood of that outcome in the **absence** of the risk factor. This measure is called the relative risk. Often in health programmes it is also necessary to determine the attributable risk. The attributable risk is the magnitude of risk that can be solely attributed to the risk factor and which would decrease in the absence of the risk factor.

In some cases, an outcome for one risk factor may be considered to be a risk factor for another outcome. For example, poverty (risk factor) is associated with low birth weight (outcome). Low birth weight in turn could act as a risk factor for infant death (outcome). A risk factor may also be associated with several outcomes, e.g., low birth weight is a risk factor for infants developing diarrhoea as well as for infant death.

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Risk factors are thus categorised into the following groups:

- Environmental: These factors pertain to an individual's surroundings, e.g., poor sanitation, drought, lack of water, lack of access to clean water, type of housing structure.
- Biological: These factors are intrinsic to the individual, e.g., age, malabsorption, malnutrition, infections, decreased immunity, developmental abnormalities, maternal height.
- Socio-economic: These factors pertain to income, societal status of women, education, employment, etc.
   Some of the most important are poverty, illiteracy, large families, and working mothers.
- Behavioural: These factors are primarily determined by cultural and/or religious beliefs, such as male preference, local beliefs regarding disease causation and management, local nutritional practices, and early marriage.
- Health care related: Some of the most important are inaccessible health services, improper outreach programmes, poor quality of health care, unavailability and/or high cost of supplies and medicines.

**Existing health services and available resources.** The information included in this section deals with the type

Some risk factors cannot be changed



and quantity of health services being provided, e.g., curative clinics, number of PHC centres, number of tertiary facilities. In addition, knowledge of the health providers such as the TBAs, doctors, dispensers, etc., helps in determining the ratio of health service providers to population.

Assessing the quality of health service Included in this section is information on how to assess the quality of health services being provided, access to the health services in terms of distance, and availability of supplies, e.g., vaccines, medicines, surgical supplies. Community perceptions regarding availability, accessibility, quality of services, etc., are also extremely important and cannot be overemphasised, as community members are ultimately the clients for such services.

In addition to health care services and providers, it is also important to ascertain other resources such as available transportation and other human resources, e.g., school teachers, that can be utilised for the provision of health care to the community.

#### Identify source(s) of information

You need to obtain information for the indices. This information can be found in: 1) existing data sources, 2) interviews with people, and 3) observation.

**Existing data sources:** A large amount of the required data can be obtained from records of hospitals and clinics, national registries, results of previous surveys, household registers (described in Step 1), etc.

Ascertaining other data sources

**Interviews:** The source in this case is the people of the community, and information can be obtained from them through:

- surveys conducted through structured interviews of either all or representative samples of the community (see Module 2 for suggestions for designing and conducting community surveys)
- interviews of a small number of particularly knowledgeable persons from the community (key informants).

**Observation:** To a great extent, data can also be collected from observing the environment and behaviour of the people of the community. This is especially needed for data



# Exhibit 8: Worksheet for determining indicators and source of indicators

INDICATORS	
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#### 1. Health status indicators

Clinical morbidity Prevalence rates Age-specific morbidity rates Frequency of cause of deaths

Cause-specific mortality rate

#### 2. Demographic indicators

Age distribution

Sex ratio

CBR

CDR

#### 3. Risk factors

Biological
malnutrition
immunization status
Environmental
water
sanitation
Socio-economic
literacy

4. Health service-related

Quantity Quality Accessibility distance cost

Behavioural

#### SOURCE

Clinic/hospital records Community survey Community survey Community survey Verbal autopsy Community survey Verbal autopsy

Community survey
Village household registers
Village household registers

MCH card MCH card

Observation Observation

Community survey Community survey

Facility survey Facility survey

Community survey
Community survey

on sensitive issues like household cleanliness, economic status, etc.

The source to be used depends on: 1) resources and; 2) the stage of the programme. For example, if you want to determine community needs but are unable to conduct a community survey, you might use existing records as your data source. If your programme is already in place, you will easily be able to obtain information generated from the

periodic reports. Exhibit 8 is a worksheet that can help you to determine indicators and the source of indicators. A blank worksheet form is provided in Appendix E.

#### Develop a survey instrument

You will also require detailed information about the community, the health services provided, and the resources present, which cannot all be obtained from records. For planning PHC programmes, you will need to conduct a survey (see Module 2) to elicit information regarding;

- · the community, and
- · health facilities.

Questionnaires, such as those in Appendix C, can be designed to provide information covering the indicators that you have selected. These questionnaires can be modified to suit your needs. Models of questionnaires in Module 2 can be used through a mix-and-match method to provide you with the necessary survey instrument. Module 2 will also provide you with details on how to analyse the data that you obtain from these surveys.

Modify questionnaires to suit your needs

# Step 3: Set priorities and identify high-risk groups

# Skip this step if:

- You know client load per facility or provider
- You have well planned outreach and clinic-based activities

### Review this step if:

- You have not identified priority health problems
- Your programme does not have a way to identify at-risk individuals or families

The purpose of this step is to help in setting priorities among health problems and in the identification of at-risk groups so that the PHC programme can: 1) provide equitable health care, and/or; 2) increase the frequency of services for those in greater need. The sub-steps for setting priorities and identifying high-risk groups are described below.

Set priorities among health problems



- · Determine the risk factors
- Set priorities for the identified risk factors
- Identify target groups and high-risk groups
- Use risk factors to monitor high-risk groups

#### Set priorities among health problems

Now that you have gone through the process of identifying community health problems (Step 2) you have some basic information in terms of the pattern of disease prevailing in the area and the risk factors that are prevalent. Your next step, therefore, is to work with the PHC team, along with the community, to prioritise the health problems.

One method of setting priorities among health problems (Exhibit 9) is based on such criteria as;

- seriousness of the disease (e.g., in terms of mortality, disability)
- · prevalence of the disease
- feasibility of control, i.e., available technology, cost, resource constraints
- community acceptance with respect to their perceptions and demands.

Each criterion can be assigned a score from 1 to 4 (or any other scale that you choose). The scores for the different health problems are tabulated using addition or multiplication and then compared and priorities are set. Multiplication may result in a more sensitive score for comparison between health problems if addition results in equal scores for different health problems (e.g., malnutrition, cancer, and AIDS = 10). Thus, according to multiplicative scores in Exhibit 9, diarrhoea is ranked as the highest priority followed by malnutrition, AIDS, and cancer. A blank form of this worksheet can be found in Appendix E.

Tabulating scores

#### Determine the risk factors

You now need to determine the risk factors that are associated with the health problems you selected to emphasise. You will find that identifying the risk factors will help you to develop appropriate strategies for health promotion,



tion, disease prevention, and the reduction of morbidity, disability, and mortality in high-risk groups.

In order to use the risk approach in your PHC programme, you can make use of the risk factors determined by:

- · prior research
- analysing data from your programme site.

As mentioned above, many risk factors have been identified and carefully documented and are easily accessible through literature. For example, your survey might have identified malnutrition as a health problem which was later determined to be high on the list of priorities. Data obtained by you from the catchment area might indicate that poverty, illiteracy, poor sanitation, and lack of antenatal care facilities are potential risk factors. A review of the literature and prior knowledge will help you to decide whether these are risk factors that you should consider in the priority-setting process. Appendix B (see also Exhibit 10 for malnutrition risk factors) provides you with risk factors for some health problems. In this appendix, risk factors for selected diseases are tabulated. However, caution must be taken and critical monitoring done when applying them to your PHC programme.

Identifying

In certain situations, you may feel that you are equipped to determine the magnitude of risk associated with a factor. In this case you may wish to calculate the Relative Risk (RR) and Attributable Risk (AR) (see Appendix B). Because risk factors vary among communities, information should be collected (see Module 2 and Module 3 — Step 2) that identifies the relevant risk factors

Exhibit 9: Worksheet for setting priorities among health problems

Health Problems	Prevalence	Seriousness		Community acceptance		Multipli- cative scores (x)
Malnutrition	3	3	3	2	11	54
Diarrhoea/ dehydration	3	4	2	4	13	96
Cancer	1	4	1	4	10	16
AIDS	2	4	1	3	10	24



### Exhibit 10: Malnutrition risk factors

Biological	Environmental	Socio-economic	Behavioural	Health care-related
Malnutrition				
<ul> <li>Age</li> <li>Malabsorption</li> <li>Infections</li> <li>Pregnancy-related nutritional disorders</li> <li>Infections and disease during pregnancy</li> <li>Decreased gut immunity due to lack of breast feeding</li> </ul>	Unsanitary conditions     Drought     Desertification	Poverty Illiteracy Large family Working mothers Violence/war Unwillingness to weigh children due to belief in evil eye	Feeding boys before girls  Preference of adults in food distribution  Unwillingness to weigh children due to belief in evil eye  Attributing malnutrition to supernatural causes and not food-related  Breast feeding boys longer than girls  Diet  Inactivity, smoking, etc.  Dietary beliefs	Lack or improper antenatal care  Distant health care facility  Drugs  Lack of drugs and diagnostic equipment  Other diseases which are untreated  Inadequate use of services



## Set priorities for risk factors identified

You will now have to set priorities for the identified risk factors through a process similar to the one you used when you set priorities among health problems. The same criteria can also be used here with a few modifications;

- seriousness of the factor in terms of magnitude of risk (i.e., relative risk and attributable risk)
- · prevalence of the risk factor
- feasibility of control (i.e., available technology, cost, resource constraints)
- community acceptance with respect to their perceptions and demands.

Here, too, you will need to assign each risk factor a score for each criterion and then to calculate total scores either by addition or multiplication. You will then compare the scores to obtain priorities for the risk factors.

## Identify main target groups and high-risk groups

After health problems and the risk factors for your catchment population are defined, you will need to identify the individuals or households in the catchment area who will be the target of your PHC services, as well as those who are at greater risk of disease and death.

Identification of priority target groups and high-risk groups is very much related. Target groups are determined in order to focus on persons who will require services. Identifying high-risk groups helps to recognise those individuals (households/communities) most at risk of disease or death, whose potential for these outcomes can be decreased if they are targeted through specific strategies aimed at reducing risk factors. For example, the target groups identified may be mothers with children under five who are most vulnerable. In this case the high-risk group would be those children under five who have been losing weight for three consecutive months.

Determining target groups

You will find that the identification of all individuals/households in the target groups is relatively easy if these groups are defined by age, sex, location, or other commonly known demographic criteria. You can obtain this information through the household registers maintained by com-



munity health workers or village leaders. In case there are no household registers, other means, such as surveys, reviewing administrative records, or interviewing key persons, can be used.

Obtain information from household registers

You can use risk factors in several ways to identify individuals or households. For example, the maternal health record card of Pakistan has an in-built risk-identifying mechanism to track high-risk pregnant women and children under three years.

#### MODEL OF MCH CARD IN PAKISTAN

The MCH card being designed for use in Pakistan, is action-oriented and focuses on risk identification. It uses the risk approach while monitoring the individual. One side of the card has information on the pregnant woman and the reverse for the child from that pregnancy.

The Maternal side of the card has four panels, one each for general information, past history, present pregnancy/labour, and outcome. Each entry has a built-in alert signal which is a shaded area and points to a risk factor. An entry in this area anywhere on the card makes the card holder a high-risk case and requires action.

The reverse of the card is devoted to the child from that particular pregnancy and has a panel for general information regarding the child, some of which is similarly designed to show risk factors (areas shaded in red). The rest of this side has a growth chart showing a cut-off for normal growth and undernutrition. Below this are shaded areas to mark bottle feeding and early weaning, which are both risk factors for poor growth.

### Use risk factors to monitor high-risk groups

You can assign households a **risk score** based on a "risk profile" which indicates the risk of high morbidity and mortality of its members. This score will help in the identification and follow-up of "risk households." The basis for creating the risk profile is a list of risk factors. The list can be based on literature, prior knowledge or experience, and local perceptions. A value is assigned on the basis of whether the risk factor is absent (0) or present (1). A total score is calculated and compared to a rating scale which was designed earlier. Weights can be used for risk factors when present, if deemed necessary.



For household no. 1, which has one infant death, three children under the age of five, an illiterate mother who is not allowed out of the house, low family income, and low use of toilet facilities, the risk score is 8. This household would be considered to be in the high-risk group. Household No. 4 has one child under five, an illiterate mother, and low family income but is included in the low-risk category because the risk score is 3.

Once these high-risk individuals, households, or communities are identified, PHC services can be organised according to the special needs of the high-risk groups.

Exhibit 11: Worksheet to develop risk profiles of households

CONDITIONS	SCORE IF	HOU	SEHO	LD NO	
	PRESENT	1	2	3	4
Number of infant deaths in past 5 years	•	1	1	1	0
Number of children under the age of 5	•	3	1	1	1
Illiterate mother	1	1	1	0	1
Cultural/religious restriction on mobility of women	1	1	1	1	0
Presence of infectious diseases (e.g., TB)	1	0	1	0	0
Low family income (below locally accepted level)	1	1	1	1	1
Improper/no use of toilet facilities*	1	1	0	1	0
Total risk score		8	6	5	3

<sup>\*</sup> Weights determined by number of children

Rating scale: Low risk Moderate risk High risk

0-3 4-6 >7

# Step 4: Plan PHC activities

### Skip this step if:

Your programme is already set up and you have job descriptions

## Review this step if:

- You want to plan community-based, outreach, and/or clinic-based activities
- · You do not know client load in your facility



The purpose of this step is to develop a community-based outreach and centre-based activities plan for delivering services. In Step 2, you identified community need and available resources. In Step 3, you determined the number of households and/or individuals who are at-risk or afflicted by health problems. At this point, you need to use Module 1 to determine your goals and objectives and the type of services required to meet the health needs of the target population. After deciding the type of service, you must decide what strategy will be used to provide the service, the community-based outreach, and the centre-based activities that will need to be performed. You will also need to know the type and amount of resources that will be required to provide the services. If you foresee that your existing resources cannot fulfill the need in an appropriate manner, then you will have to decide either to mobilise additional resources or to relocate existing resources to improve efficiency.

3.2

Planning strategy

To carry out this step, PHC teams with large catchment areas must have assessed community needs (Module 2 and/or Step 2 of this module), identified priority or high-risk groups (Step 3), defined programme goals and objectives based on the needs of the community (Module 1), selected PHC services (Module 1), and identified strategies for providing the services.

The manager, the PHC team, and the community leaders should together plan PHC services and activities. The following section will focus on how to plan community-based, outreach, and clinic-based activities to deliver services. The following sub-steps will need to be modified depending on the nature of the activity.

- List services required by the community and identify the strategies that will be used and the activities that will need to be performed to provide these services
- · Identify and plan community-based and outreach activities
- · Identify and plan clinic-based activities

# List services required, identify strategies and activities

In Steps 2 and 3, you identified the community needs and the priority groups. You, the PHC team, and the community

Assessing community needs



Identify the community health services and activities

leaders will now need to work together to identify (use Module 1) and list the services that should be provided and the strategies for delivering those services.

For example, you may have decided that you need to provide antenatal care, growth monitoring, immunization, and basic curative care services. You now need to decide **how** you will provide these services. You need to determine:

- the overall strategy that you will use to provide each service.
- which activities are needed to provide the service. You may need several.
- who will perform the activities, how, and at which level (community vs. health centre). The activities needed to provide a service may be activities done by different people at different levels.

Exhibit 12 is an example of a worksheet that can be used to list services, strategies, activities, those who should do the activity, and where and how it should be done. A blank form is provided in Appendix E.

Once you have listed the activities, identify which are community-based, outreach, and/or centre-based activities. A community-based activity is performed at the community level by community members. An outreach activity is performed at the community level by the health centre staff. A centre-based activity is done at the centre by health centre staff. Organising and conducting clinics is a major centre-based activity.

The first column of Exhibit 13 shows an example of activities that can be done at the different levels. You can use the first column of the worksheet provided in Appendix E for listing your activities in the appropriate category.

In the following sub-steps you will be asked to plan for each activity separately. However since many of the attributes involve the same resources, it is important to look at the package of activities as a whole when assessing the availability of resources. Resources should be allocated to reach an optimal level of services for those at risk and to maintain equity.



Exhibit 12: Worksheet for identifying services, strategies and activities

Service/component	Strategy	Activities		
		List	Who will do it	How and when
Immunization	Will be provided regularly at the health centre and periodically in the villages through camps	Motivate mothers	CHW	Home visits
		Maintain cold chain	Vaccinator	At health centre and during transportation with proper carriers
		Vaccinate	Vaccinator	Centre and camps
		Maintain records	Vaccinator /CHW	Centre, camps and home visits
Basic curative care	Will be provided regularly at the health centre.	Identify and refer cases from community	CHWs and LHVs	Home visits
		Provide treatment	CHN and CHD	In health centre
		Maintain reports	CHN and CHD	In health centre
Community organisation	Motivate community members to participate in improving their own health	Dialogue with community members	COs and CHDs	Visits to villages-COs
	through regular interaction with them.	Form village committees		Visit to villages
		Select volunteers	Community members and COs	Meeting with village committee
		Form area health committees	COs and CHDs	Visit to villages and meeting at health facility
		Have regular meeting with.		
		village committees	COs	Village health centre
		area committees	COs and CHDs	

Community organiser

CHW = Community health worker

LHV = Lady health visitor

TBA = Traditional birth attendent

CHN = Community health nurse

CHD = Community health doctor

Vac. = Vaccinator

AA = Administrative assistant

SP = Security person





# Exhibit 13: Worksheet for planning PHC activities (continued, page 37)

Services / activit	ties needed		Manpowe	r		Logistics / s	upplies		Optimal
A. Community- based	Target group	Frequency	Required		Available	Required		Available	level of services
			Туре	Number (FTEs)		Туре	Amount		given resource constraints
Home visits for. Growth monitoring Build awareness of ORS for diarrhoea Motivate for FP Motivate for immunization and ANC Follow-up of high risk Referral etc	1.000 HHs	Regular 1/month High-risk I/week more if needed	CHWs	6	4	Weighing scale ORS packets Registers Stationery	10		Visit HHs with no women and children quarterly, the rest monthly
Community meetings for health education	Mothers of 10 villages	1/month	CHW	1.5		Flip Charts			
Deliveries	Women delivering	30/month	TBAs	1		TBA kii	10		
B. Outreach									
Community organisation activities	10 Villages	1/two weeks	со	1		Bus fare			
Vaccination	300 women and children	1/month per village	Vac	0.5		Vaccines Carriers Syringes Van	10 days/month		
Supervision/support	CHW Others	1/month per CHW regular	LHV CHN	0.4 0.1		Van	15 days/month		

CO = Community organiser

CHW = Community health worker

LHD = Lady health visitor

TBA = Traditional birth attendent

CHN = Community health nurse

CHD = Community health doctor

Vac. = Vaccinator

AA = Administrative assistant

SP = Security person

Exhibit 13: Worksheet for planning PHC activities

Services / activit	clinic-based Target Frequency					Logistics /	supplies		Optimal level of		
C. Clinic-based	Target group	Frequency	Required		Available	Required		Available	services given resource		
			Туре	Number (FTEs)		Туре	Amount		constraints		
Curative care	1000/month (20% ref. to CHD)	Every day	LHV CHN CHD	0.7 0.65 0.2	0.55	Drugs (by type) Equipment Van	2 days/ month		May need to bring a volunteer from time to time		
Antenatal care	80/month (20% ref. to CHD)	1/week	CHN CHD	0.15 0.03							
Vaccinations	200/month	1/wcek	LHV Vac.	0.2 0.4		Vaccines Syringes Refrigerator Equipment					
Family planning	200/month	1/week	LHV	0.5	0.40	Condoms Pills, etc.			May need to bring a volunteer in to help with FP		
Supervision/support	Staff at centre	Regular	CHN CHD	0.1 0.3							
Management activities meetings	PHC Team CHW/CHN	1/month 1/month	CHW LHV CHN CHD Vac	1.5 0.3 0.1 0.4 0.1		Stationery Register and - Form					
Administration			AA Helper SP	1 1 1		Van Stationery Cleaning supplies, etc.	2 days/month				
Total			CO CHWs TBAs Vbc LHVs CHN CHD AA Helper SP	10 11 2.1 1.1 1 1 1 1	10 for 10% 10 for 10% 2 1 1 1 1	Van Cost of other equipment and supplies	1				



# Identify and plan outreach and community-based activities

Planning each activity

In developing countries, community-based activities play an important role in ensuring that large populations have access to basic health care, both curative and preventive. A number of health services originate from clinics, but frequently community-based workers play an important role as a source for referrals and for the provision of basic health care and education.

The planning of some of the community-based activities, such as selection of CHWs, home visits, and monitoring of CHWs, should be conducted by the community members themselves with some technical assistance from the health centre staff.

Community-based workers need to be trained and supported by the clinical staff. Clinical staff often also monitor the high-risk individuals in the community identified by the community health workers. Outreach activities are very important for the success of the community-based programme and can be done through meetings with community-based workers, community meetings, immunization or growth monitoring camps, educational sessions with school children, and home visits. Therefore, PHC teams need to plan their clinic staff's outreach activities as well as to participate in the planning of the activities that are to be carried out by community-based workers. The sub-steps to plan and carry out community-based and outreach activities are described below.

- Determine number of units (individuals/households/villages) to be covered for each activity
- · Determine optimal time interval for each activity
- Determine resource requirements
- Compare resource availability with requirements and identify an optimal number of visits
- Develop tools to plan and monitor community-based and outreach

**Determine number of units to be covered.** For activities like health education you will have to target the entire village while for others, such as immunization, ORT, etc., you



Selecting targets

may target specific households or individuals. You will have to review the household or village register or a map of your catchment area to determine the size and location of the target populations for various activities. If you do not have a household or a village register or a map, you should review Step 1 for how to develop them.

Determine optimal time interval for each activity. You will need to decide an optimal time interval for each activity. For example, you may decide to conduct a community-wide health education session once every three months, while immunization services will be offered in a village once a month. In some communities, monthly home visits may be needed, while in others, quarterly visits may be enough. Information from past experience, literature reviews, and/or operational research could be used to determine the frequency of visits that would be required to meet community needs.

1.10

**Determine resource requirements.** For each activity, you should determine the type and quantity of resources required. For example, health education may be provided by a community nurse, while contraceptive supplies could be provided by community health workers. In this section we will focus on how to determine staff requirements; however, the same method can be used for other resource requirements (for example a vehicle). Exhibit 14 formulae can be used to determine the level of staff effort required for each type of activity (for example, home visits) over a specific time period.

Before you do the next step, you need to determine the availability of resources. When calculating availability, keep in

### Exhibit 14: Worksheet to determine staff requirements

Staff capacity per month = days/month x number of units that can be covered/day per worker

Staff requirement = units to be covered/staff capacity

Note: When determining the number of units that can be covered for one type of activity in a day, take into account the time it takes to effectively cover the unit for that activity and travel time if needed.



mind other activities which need the same resources. For example, a health worker may need to conduct community meetings, health education sessions, and immunization sessions in addition to home visits (see Exhibit 13). Personal leave and administrative duties should also be considered when determining availability. Since you need to see the whole package of activities when allocating available resources, it may be a good idea for you to do the first three sub-steps for all activities before you do the next step. An example of the results of this process is shown in Exhibit 13. A blank worksheet form has been provided in Appendix E for you to use.

### For example, if you were planning LHVs outreach support visits:

Number of villages in catchment area: 50
Frequency for visiting each village: once a month
Number of working days per month: 25
Number of villages that can be visited per day per LHV: 1
Staff capacity per month = 25 X 1 = 25 per LHVs
Staff requirement = 50/25 = 2 full time (FTE) LHVs

Compare resource availability with requirements and identify an optimal number of visits. In the last sub-step, you determined the number of staff needed to perform a particular activity in a specific time period. If the existing staff is unable to cover every unit (village/house-hold/individual) during the time interval, then you should:

- · increase the time allocated for doing the activity;
- hire additional staff; or
- substitute resource intense activities with less resource intense activities. For example, use group sessions as a substitute for frequent home visits. However, focus on high-risk groups/individuals should not be neglected.

You can use the following formula to determine the total time (in months) needed to cover every unit in the catchment area:

No. units/(staff capacity x No. of staff available) = frequency of doing the activity

If the total is one, all units can be covered every month. If it is more than one, a special strategy is needed.



For example, for planning home visits if:

Number of households = 600

Days/month = 20

Number of households that can be visited per day per worker = 5

Capacity per month per worker =  $20 \times 5 = 100$ 

Available health workers = 4

Time to complete routine visits =  $600/(100 \times 4) = 1.5$  months

Therefore, with the existing number of workers, it would take 1.5 months to visit every household.

months to visit every household.

In the example above, if each household could be visited quarterly instead of once in 1.5 months, the remainder of the outreach time could be used for high-risk cases, which could be followed up monthly or weekly. However, if it is felt that regular monthly visits are essential to meet the needs of the community, two more workers will need to be identified and trained.

In some situations the above method may not be useful for community-based workers since they are often volunteers and are not always available. In such a case, each worker should be asked how much time she/he would be able to give. This will help you to determine the number of households/individuals she/he can monitor and the total number of workers that will need to be selected and trained. If there are not enough available volunteers, then the frequency of visits/service may have to be decreased.

Develop tools to plan and monitor communitybased and outreach activities. This step is the basis for developing individual work plans in Step 6 and for assessing performance in Step 7. Activity registers or lists of target groups can be used to plan community outreach services and to follow up high-risk cases. Some activities which are done once a month, such as community meetings, may not need a separate tool. A work schedule (see Step 5) can be used to plan such activities. Activities such as immunization camps need a list of villages, a map, and a schedule. Supervisors can use supervisory checklists (Modules 5 and 6) to identify gaps in the quality of services being provided by the service providers and to identify training needs. Five models of tools for planning and monitoring communitybased and/or outreach activities will be presented in this section as examples.

Develop individual workplans



3

- CHW activity register used by the Urban PHC Programme of the Aga Khan University in which families are visited on a monthly basis (see Exhibit 15).
- Pictorial CHW activity record a part of it is extracted from the record used by the Mombasa PHC Programme of the Aga Khan Health Service, Kenya (see Exhibit 16).
- Pictorial TBA activity record not tested anywhere as of yet (see Exhibit 17).
- LHV activity register not tested anywhere as of yet (see Exhibit 18).
- Target lists of women who need immunization used by the Aga Khan Community Health Programme in Bangladesh (see Exhibit 19).

These formats can be adapted and used in various situations.



# MODEL 1: AKU URBAN CHW ACTIVITY REGISTER FOR MONTHLY HOME VISITS

At present, the CHWs in AKU's Urban PHC programme focus their attention on married women with children less than three years old. Growth monitoring of children less than three years is done every month. The CHWs list all the households, children, and married women in their target area in the household register once a year and update it during their home visits. The CHW also records information about their activities (households visited, children weighed) and target population (births, deaths, age, weight change, nutrition status, immunization status, diarrhoea cases of children under five years, last menstrual period, pregnancies, use of family planning, and immunization status of married women) during home visits. The CHW uses the register to:

- plan her home visits and monitor the health status of the target population,
- · identify and monitor the high-risk women and children
- record and aggregate information to see if changes are occurring over time and thus,
- revaluate her own performance.

1.03

-

The supervisors use the register for identifying problems and for supporting the CHWs. The register is also used for summarising information and preparing quarterly reports for management purposes.

The CHW has visited (columns 11-13) all seven families, 12 children, and eight women listed on this page in January and March. In February, she visited six out of the seven families.

- She weighed and recorded weight change from one month to the other (+ = increase, 0 = table, and —= decrease) of children less than three years of age in January, February, and March (columns 6-8). She must focus her attention on two children child C2 in House No. 245 has lost weight three times in a row and child C4 in House No. 248 has not been putting on weight and is a second degree malnourished child.
- Household 248 seems to be a problem household as all the children seem to have nutritional problems and immunization does not seem to be given importance.
- Three of the married women are pregnant (Household Nos. 243, 245, and 248).
- One woman has delivered a baby (house No. 243) during the month of March and may need follow-up by a nurse. Her other child seems to be neglected.

A model of the CHW activity register with instructions on how to fill it is provided in Appendix D.





# Exhibit 15: CHW activities register (continued, page 45)

			Children	< 3 years								
Srs.	Household No.	ID No.	Age	Newly ide (JanMar	entified bir	th	Jan.		Feb.	March		
				Li	Live		Wt.	*Wt.	*Wt.	* Wt.	"Nut St. "Imm	
				DT	BW	DT		Ch	Ch	Ch	1	(<1)
			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
01	242	C5	2.1				10.5	_	0	0	N	С
02	243	C2 C3	2.7 NB	12/3	2.4		8.3	+	-	0	-	C IC
03	244	C6	21				11.2	+	+	NW	N	IC
04	245	CZ C3	18 0.8				10.4 8.2	_ +	<u>_</u>	=	N N	IC A
05	246	C4 C5	2.9				10.1	+	<del>-</del>	0 +	I 1	C
06	247	C1	2.6				8.5	+		_	II	С
07	248	C4 C5 C6	21 11 0.2				7.6 8.0 3.4	- + +	0 0 +	- - -	II I I	IC IC N
Total	x	x	12	1	BW = 1 LBW = 1			+=7 0=0 -=4	+=3 0=4 -=3	+=1 0=6 -=3	N = 4 I = 6 II = 2	C = 5 A = 1 IC = 5
					1			NW = 0	NW = 0	NW = 1	111 = 0	N=

<sup>\*</sup> WEIGHT CHANGE

" NUTRITION STATUS

N = Normal

l = First degree malnourished

II = Second degree malnourished

III = Third degree malnourished

NW = Not weighed

<sup>+ =</sup> Increase in weight

O = Same weight

<sup>- =</sup> Decrease in weight

## Exhibit 15: CHW activities register

Date	of visits			Deaths		Married	women					
Srs.	Jan.	Feb.	Mar.	Jan-Mar.	Jan.	Feb.	Feb. March		***Immunization status		ID No	Number of family members
				ID No.	PR	PR	FP	PR	Ali	DLVD		
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
01	12/1	15/2	18/3						С			6
				D1	7	8			C	С	М	8
02	12/1	14/2	18/3	25/12								
03	13/1	14/2	12/3						IC		M	3
					4	5		6	С		М	5
04	13/1	14/2	12/3									
									IC		M	6
05	10/1	12/2	13/3									
06	10/1		13/3						IC		M	3
						4			IC		M	5
									IC		M	
07	10/1	13/2	13/3								C1	
	7	6	7	1	2	3		1	C = 3 IC = 5 N = 0	C=1 IC=0 N=0	8	36

· IMMUNIZATION STATUS

C = Complete

IC = Incomplete for age

A = Appropriate for age

N = No immunization

NB = Newborn

BW = Birth weight

LBW = Low birth weight

PR = Pregnancy month of pregnant woman

DLVD = Women who have delivered during the quarter

FP = Family planning

DT = Date



# MODELS 2 AND 3: PICTORIAL CHW AND TBA RECORDS

In some rural areas the TBAs and the CHWs are illiterate or semi-illiterate. In such cases, these workers can use pictorial records to plan and monitor their activities. However, recording should be kept to a minimum, and only those indicators that can be used by the workers themselves or the community should be on the record.

An example of a pictorial CHW record is presented in Exhibit 16, and a TBA record in Exhibit 17. In developing pictorial records, the end users should be involved because pictures should be culturally sensitive and should be understood by the local people.

#### MODEL 4: LHV ACTIVITY REGISTER

LHVs need a tool to plan their outreach services. Their outreach activities often include support visits or training sessions for community workers, meetings with CHWs or other community members to plan community-based services, home visits to high-risk individuals, and group health education, growth monitoring, and immunization sessions.

An example of a register she can use to monitor and plan her outreach activities has been provided in Exhibit 18.

### MODEL 5: COMPUTER-GENERATED LISTS

In project areas where it is feasible and cost-effective, computergenerated lists of default or high-risk cases can be used for planning and conducting outreach services. Exhibit 19 shows a list of women who need tetanus toxoid immunizations. This format is currently being used by the Aga Khan Community Health Programme in Bangladesh.

Some advantages of computer lists include the following:

- they eliminate the burden of having to create the lists manually and maintenance can be relatively simple,
- the accuracy of the information may improve because computers can reduce human error in the manipulation of data, and
- computers can also aggregate information and generate different types of indicators for the different levels of workers and managers.



# Exhibit 16: CHW activity record (continued, page 48)

Name of CHW:	Village:	Month:
THE PART OF THE PA	Homes	s visited this 000000000000000000000000000000000000
	Meetir this m	ngs attended OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO
(in)	Childre comple vaccina	
	not ha	en who have d a single nisation
	77	en suffering OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO

INSTRUCTIONS: Fill one circle for every case seen.

# Exhibit 16: CHW activity record

Name of CHW:	Village:		Month:
		Children identified malnourished this month	00000000
A. T.		Children suffering from ARI	00000000
		Number of referrals made	00000000
Ciri.		Children born this month	00000000
	D	Children who died this month	0000000
INSTRUCTIONS: Fill one circ	Cle for every case see	Mothers who died this month	00000000



# Exhibit 17: TBA monthly record (continued, page 50)

Year-Month: Division: TBA name Deliveries assisted Abortions 00000 00000 000000000000000 0000000000000000 0000000000000000 ز چگی سے ملے کہتن بورتوں کو و زے کیا؟ كتنى فواتنوى ية خانوانى مىغدىدىندى برغلى تروع كداء Family planning accepted 00000 00000 0000000000000000 0000000000000000 0000000000000000 دُھانُ كُو ہاا سے كم وزن كے كنے يے سماہون؟ Postnatal visits Low birth weight 00000 00000 0000000000000000 0000000000000000 00000000000000000 Antenatal referral Full term 00000 00000 0000000000000000 0000000000000000 INSTRUCTIONS: Fill one circle for every case seen

10

### Exhibit 17: TBA monthly record

Year: Month. TRA name Division: Postnatal referral Pre-term 00000 00000 0000000000000000 0000000000000000 000000000000000 H نادمل کیس کننے یہ نے و لسر کے دوران کتنے کسی ماہر نصحہ؟ Referral in labour Normal labour 00000 00000 000000000000000 0000000000000000 0000000000000000 0000000000000000 世世 دلیوری میں ایک دن سے زیارہ Still births Prolonged labour 00000 00000 000000000000000 000000000000000 0000000000000000 4444 ہ سات دن ہے Puerperal fever First week deaths 00000 00000 0000000000000000 000000000000000 00000000000000000 00000000000000000 INSTRUCTIONS: Fill one circle for every case seen.



# Exhibit 18: LHV activity register

لنا

Name of LHV: Naseem Ali Hyder

Month: November

Date	Village	Purpose	of visit											Actions taken
			Training	Meetin	ng	Visit	Sessio	ns on		Others	No. of			
		visit	session	CHWs	Com- munity	high risk	IMM	GMP	Health education	(specify)	partic or per visited	sons	S	
2	Mosa Goth			X		X					MCHW VHR	20	3	Health talk given to pregnant women and diet info to III degree malnourished child's mother
3	Babu Jo Goth		Х					X			TS SCMP	= =	12 7	
4	Ali Goth	X									sv	-	3	
5	Allah Goth				X						СМ	=	10	
6	Nathan G.					х	X				VHR SI	=	2 11	Full term pregnant with fits, refer to hospital
9	Palijo Goth								X		SHE	=	12	
10	Shahjo G.		X								TS MTBA	=	10 6	
11	Juman Jo Goth	х	X			X					SV TS VHR	= = =	3 13 3	
12	Shahi Goth			X	X		Х				MCHW MC SIMM	U 0 U	9 8 15	Immunized women who were present in the session and had not rec'd any
13	Shams Goth		Х			X			Х		TS VHR	=	10 3	Gave health talk to pregnant women
16	Mhmd Goth	X				х				Meeting with TBA and teachers	MTBA VHR MT	= =	6 3 5	Prepared and gave food to the III degree malnourished child in front of his mother

Exhibit 19: Target list of women to be immunized

Reg.#	Name	Age	Preg-	TTI	TTI	TT2	TT2	Booster	Booster
			nant		Date		Date	2000101	Date
90001A	Shahida Akhtar	18		N	//		//		//
90002F	Shohida	36		N	11		11		//
90008F	Husnera	15		N	11		11		11
90009A	Fatema Begum	25		N	11		11		11
90012C	Nurjahan	27		N	11		11		//
90013A	Razia	18		N	11		//		//
90014F	Monni	19		N	11		11		//
90015A	Nayama Chowdhary	45		N	11		11		//
90016D	Mazeda Chowdhary	34		N	11		11		11
90017C	Halima Karim	25	Y	Y	02/31/91	N	11		11
90018D	Ruma	27		N	11		11		11
90019A	Runa	23		N	11		11		//
90020A	Rita Ahmad	45		N	11		11		11
90021A	Arifa Ahmad	34		N	11		11		11
90022C	Jiauan Naher	24		Y	15/01/92	N	11		//
90024F	Rupaili	34		N	11		11		//
90025A	Meheri Banu	23		N	11		11		11
90031A	Nagwa Mata	33		N	//		11		//
90035A	Fatema Bebum	23		N	//		11		//
90037A	Jesmin Sultanta	34		N	11		11		//
90038A	Hushneara	19	Υ	Y	01/01/90	Y	10/01/90	Y	15/02/92
90043S	Rezia	17		N	11		//		11
90047S	Jaahanara	23		N	11		//		//
900485	Bebum	24		N	11		11		11
90049A	Almina Arahiim	16	i	N	11		11		11
90050A	Shilashen	23		Y	20/03/91	Y	30/06/91	Y	01/10/92
90051A	Farhana Karim	19		N	11		11		//
90052A	Afsana	34		N	11		11		11
90055D	Shana	27		N	//		11		11
90059A	Rubina	46		N	11		11		11
90067A	Shanjida	19		Y	11	Y	11		11
900708	Momitaz	17		Y	01/01/89	Y	11	N	11
90073A	Peyara	25		N	10/06/91		11	N	11
90075A	Shahida	31		Y	11	_	11		//

### Identify and plan clinic-based activities

The planning of clinics is an essential part of a PHC programme. It serves the purpose of supplementing field-based preventive services by providing a back-up referral together with centralised preventive services.

It is also important to determine the types of services which are or will be in demand. Examine the services which



are offered at the clinic and compare them to survey results. Are the community's perceived needs being met by the services offered? Are there other services/schedules that would better serve the population?

You should use the second half of the worksheet (Exhibit 13) to complete this step. The sub-steps to plan clinics are

listed below.

- · Determine client load
- Determine staff capacity and resource requirements
- Determine availability of resources
- Compare availability with need and identify an optimal solution
- · Develop tools to plan clinic-based activities

Determine client load. You should project utilisation or demand for various PHC services for a specific time period (month, year, etc). You can base your projections on clinic records from recent years or on community surveys. Keep in mind that demand for services can be influenced by many factors internal and external, to the PHC programme. For example, a new mass media initiative, a social marketing programme, the establishment or closure of another nearby clinic, or a new market place can all positively or negatively influence demand in your area. Some influences cannot be foreseen, so you should plan within a range. Once you are satisfied that your range realistically reflects the current situation and foreseeable influences, this information can be used to estimate requirements for manpower, equipment, and supplies.

You can calculate demand for services or project client load using the following two methods:

Method 1 - The average number of patients/clients expected to come for the various services in a given month can be determined from past records and/or community surveys (Module 2).

**Example:** If there are 200 pregnant women in a catchment area and past records show that 30% of them come for ANC on a monthly basis, 10% come occasionally, and the rest do not come, the expected ANC visits for the month would be between 60 to 80.



Method 2 - Some people recommend that an arbitrary figure of one adult visit and three child visits per person per year can be used to calculate the clinic load.

**Example:** If the catchment area population consists of 9,000 adults and 1,000 children, the total number of visits at the clinic per year would be:

9,000 adults x 1 visit/person/year = 9,000 1,000 children x 3 visits/child/year = 3,000 Total clinic load (#visits/year) = 12,000

Look for patterns of fluctuations in client load by days of the week, months, or seasons. For example, market days, religious periods, or planting seasons may prevent clients from seeking service. You should make optimum use of your resources by making them most available when demand is highest. Try to plan other non-service activities, such as training or inventory, during these low demand periods.

**Determine staff capacity.** Looking at past experience, one can determine on an average how many patients/clients can be seen by the service provider on any one day for the various services. Using this average, the number of clinic days needed for the services can be calculated.

**Example:** If from past experience we see that a CHN or an LHV takes about 15 minutes to see one ANC case, and that 20% of the ANC cases seen by an LHV or a CHN have to be referred to a doctor, and that the doctor takes about 10 minutes to see a referred cases, then to see 80 cases in a month we would need;

LHV/CHN's time: 4 cases/hour at 15 minutes/case

4x8 hours = 32 cases/day

80/32 = 2.5 days

Doctor's time: 6 cases/hr at 10 minutes/case

20% of 80 = 16 patients

16/6 = 2.7 hours

**Determine resource requirements.** The average yearly requirements for drugs, supplies, and other resources can also be determined using past experience. You should determine the average requirement per case and then determine the current year's requirements based on your projection of client load, which was calculated in the previous step. For example, if you determine that the clinic will receive an average of 200 family planning clients per month



who require (based on last year's demand) 144 condoms per client per year, your projected yearly requirement would be about 2,880 (200 clients x 144 condoms/client/year). Again, keep in mind other factors that which could increase or decrease your estimated demand.

Determine availability of resources. When determining availability of resources, keep in mind all health services as they often involve the same resources. For example, besides seeing patients, a nurse may supervise/support field workers, make reports, etc. Different clinics often must be run in the same limited space, making lack of space a problem. Therefore, different clinical services (ANC, immunization, curative care, etc.) may have to be provided on separate days and the availability of resources may have to be determined by the day of the week.

Compare availability with need and identify an optimal solution. The optimal solution is one that best addresses the service need, given the resources available. You should not expect to meet 100% of the need but should look for ways to adjust your service delivery to meet as much of the need as possible without sacrificing the quality of your programme. These adjustments may be long-term (if funds are not available), while others may be short-term (if, for example, trained workers are not available and the training can be done in a few months).

**Example**: In the example shown in Exhibit 13, 80 ANC cases per month are expected, and if staff capacity is as shown, 15% (three days) of the CHN's time and 3% (five hours) of the doctor's time will be needed to see these cases. Looking at all the other activities of the staff, the CHN is available for three days and the doctor for five hours in a month to see ANC cases; therefore, there is no problem. However, if they were not available, the reasons would have to be identified and the solutions found.

Funds may be available to hire only one LHV rather than two, and the CHN may have to spend time supervising the CHW; therefore, compromises would need to be made. Outreach programmes could be decreased, volunteer manpower could be identified, or curative care clients could be referred to other centres, etc.

If trained manpower is not available, local manpower could receive more training, etc.



**Develop tools to plan clinic-based activities.** The final step in the planning process is to develop tools to record information which can help in the monitoring process as well as in the making of future decisions. The information needed for clinic-based services could contain:

- A weekly timetable: (See Step 6). This can be developed based on expected patient load for a particular service and the availability of personnel.
- Individual medical records: The record gives the health provider the information he needs for patient care. It often has two formats. The first is for each encounter (see Exhibit 20), and the second summarises all of an individual's encounters (see Exhibit 21). Blank forms are provided in Appendix E.
- Daily clinical treatment record: (See Exhibit 22). This can be designed to show the general profile (age, sex, diagnosis, etc.) of all clients who visit a clinic each day. It helps to determine client load in a specified period. The pattern of diseases or the services that people require will be demonstrated through this format. A blank form is in Appendix E.
- Drug dispensing form: (See Exhibit 23). This lists the drugs available at the centre at the the beginning of the month (which is the balance left over from the previous month), the amount received during the month, the amount dispensed on each day of the month, and the balance at the end of the month. A tabulation at the end of the month would help to determine the type of drugs and quantity needed for the following month (see Appendix E for a blank form). A similar format can be used as a daily record with the amount dispensed against each patient if needed.

Similarly, records could be developed for other issues that the PHC team or manager identify as crucial to setting up and monitoring a programme.



# Exhibit 20: Individual medical record

	INDIVIDUAL MEDICAL RECORD							
(Fill this form for every encounter)								
Name:	Date of visit:							
1. History:								
2. Physical examination:	T: P: BP: R:							
3. Assessment:	4. Plan							
Investigation:	Treatment:							

## Exhibit 21: Individual medical record

Household #: Individual #:	Med	ical record#:	(for unregistered only)						
Patient Name: Father/husband name.									
Date of birth: Sex (M/F):	Heio	aht:	Weight:						
Past history: Diagnosis	Hos	pitalisation	Medication						
				-					
Drug allergies: Y/N (specify):									
Family history (check appropriate boxes):									
Hypertension Diabetes		Others							
Personal history (check appropriate box									
Smoking Alcohol		Осси	pation						
VISIT DATES	1 1								
1 Tuberculosis									
2 Polio		+							
3 Diphtheria/pertussis/tetanus									
4 Measles									
5 Mumps									
6 Malnutrition									
7 Diarrhoea/dysentary									
8 Intestinal parasites									
9 Hepatitis/jaundice									
10 URTI									
11 Pneumonia/bronch. (LRTI)			اوالباه کی کا کا کا						
12 Other LRTI/asthma									
13 Skin problems									
14 UTI		أطهاننا							
15 Fever > five days									
16 Pregnancy-related problem									
17 Anaemia									
18 FP complications									
19 Gunaecological problems									
20 Hypertension/ischaemic									
21 Diabetes									
22 Musculoskeletal disorders									
23 Mental illness									
24 Dental problems									
25 Eye problems									
26 Errors of refraction									
27 Ear problems									
28 Accidents/Injuries									
29 Handicaps									
30 Other									



# Exhibit 22: Daily clinical treatment record

Name of clinic: Mt. Vernon		Dat	te: 281	You, 19	92			MO/	CHN: F	amela	
Registered											
	1	2	3	4	5	6	7	8	9	10	Total
Household No./Reg. No.	146	128	62	243	416	24	518	661	84	1	
ID #.	238	216	45	306	610	47	618	721	96	ļ	M=4
Sex: M/F	F	М	М	М	F	F	М	F	F		F=5
Age Years > 1			X				X				2
1-5		X			X			X			3
6-15											
16-49	X					X			X		3
Over 49				X							1
Routine ANC	X					X			X		3
Routine well-baby			X		X		X				3
1 Tuberculosis						1					
2 Polio											
3 Diphtheria/pertussis/tetanus							1				
4 Measles		X			X			X			3
5 Mumps											
Other diseases				Х							1
6 Malnutrition											
7 Diarrhoea/dysentary				Î							
8 Intestinal parasites			X		X						2
9 Hepatitis/jaundice											
10 URTI		1									
11 Pneumonia/bronch (LRTI)											
12 Other LRT1/asthma											
13 Skin problems											
14 UTI											
15 Fever > 5 days											
16 Pregnancy-related problem											
17 Anaemia											
18 F. P. complications											
19 Gynaecological problems											
20 Hypertension/ischaemic											
21 Diabetes											
22 Musculoskeletal disorders											
23 Mental illness											
24 Dental problems								-			
25 Eye problems											
26 Errors of refraction											
27 Ear problems					-						
28 Accidents/injuries		1							1		
29 Handicaps	-										
30 Other (Specify)								1	_		



# Exhibit 23: Drug supply record (continued, page 61)

		ne of centre: Previous Rec'vd Total D balance				Date	Issued Balance Co					Cost	
1	Acetyl Salicylic Acid Tab. 300 mg												
2	Aluminum and Magnesium Hydroxide Tabs.												
3	Aminophyllin Tab. 100 mg												
4	Benzyl Benzoate 25% solution												
5	Betamethasone Cream												
6	Buscopan 10 mg Tabs.												
7a	Chloramphenicol Eye Ointment									T			
7ь	Chloramphenicol Syrup												
7c	Chloramphenicol Capsule												
7d	Chloramphenicol Eye Drops (Btls)												
8a	Chloroquin Syrup								الم الم				
8ь	Chloroquin Tab. 250mg												
9a	Cotrimoxazole (Double strength)												
9Ь	Cotrimoxazole Syrup												
10	Chlorpheniramine Tabs. 4 mg									]_			
11	Diazepam 5 mg. Tabs (Relaxipam)												
12a	Ferrous Sulphate Tabs. 200 mg												
12b	Ferrous Sulphate Syrup												
13	Folic Acid Tabs. 5 mg												
14	Gradinal Sodium Tabs. (Phenobarb)												
15	Gentian Violet 1% Aqueous Solution												
16	Mefanamic Acid Tabs. (Ponstan)												

		Previous balance	Rec'vd Total	Date	Issued	Balance C	ost
17	Metronidazole Syrup						
17a	Metronidazole Tab. 200 mg						
18	Neomycin and Bacitracin Oint. Skin 15 mg						
19	Nystatin Vaginal Pessaries						
20	Nystatin Oral Drop (Nilstat)						
21	Otosporin Ear Drops						
22	Oxytetracycline Tab. 250 mg						
23a	Paracetamol Tab 500 mg						
23ь	Paracetamol Syrup						
24a	Phenoxymethyl penicillin Tabs. 250 mg						
24Ь	Phenoxymethyl penicillin Syr. 250 mg						
25	Pyrantel Pamoate susp.						
26	Theophyllin Syr. 150 mg/ 5 ml						
27	Whitefield's Ointment in kg						



# Step 5: Develop job descriptions and recruit staff

### Skip this step if:

 Your programme is already set up and you already have work plans for each staff member

### Review this step if:

- · Your job descriptions are out of date
- They are not on a programme list

The purpose of this step is to translate the plan for PHC activities (developed in Step 4) into roles and responsibilities for individual staff. This is done by first developing a "role and tasks" list from the service plan. This list describes the tasks for each staff position and the experience and skills required. Next, the "role and tasks" list is used to develop job descriptions for each position. After these job descriptions are reviewed and approved, they can be "posted" or advertised as "job announcements." Candidates can then be recruited, interviewed, screened, and selected according to your organisation's regular procedures. The purpose of a job description is to:

- Describe the roles and tasks that staff need to carry out to help the programme achieve its objectives;
- Identify the experience, skills and knowledge needed to carry out the tasks; and
- Ensure that management and staff have a mutual understanding of these expectations.

Sub-steps for developing a job description and recruiting staff are listed below.

- Develop a "role and tasks" list
   Identify programme activities/tasks for each staff position
   Identify skills/experience needed for each staff position
- Prepare job descriptions

Assignments, tasks
Personal skills/experience requirements



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- Post job announcement and recruit, screen, and select candidates
- Agree with selected candidates on role and task expectations

### Develop role, tasks and skills list

The first step is to translate the programme plan for clinic and outreach services into staff assignments. Programmes are usually subdivided into components (ORT, ANC, plan-

### Exhibit 24: Role and tasks list

#### PHC programme goals:

- To improve the health status of mothers and children of under five years of age.
- 2. To reduce the IMR by 10% in two years.

### Service objectives:

1. To increase the children in the normal category by 20% in two years.

#### Strategies:

- 1. Growth monitoring during monthly home visits.
- 2. Vaccination of children and married women.
- Provision of health education on family planning, breast feeding, control of diarrhoeal diseases

	diarrhoeai diseases	). 		
Position	Role	Tasks	Experience	Ability/skills
title				
CHW	To provide services	During home visits and at	Not necessary but	Communication
	and monitor women and	PHC educate and promote health by	know community	skills. Interest
	children in her	> growth monitoring	dynamics	in conducting health
	assigned target area.			education
	assigned larger area.	Treatm education		sessions
		nutrition		
		use of ORS solution		
		• breast feeding		
		* immunization		
		* family planning		
		personal/public cleanliness		
		<ul> <li>identifying at-risk patients and referring to PHC</li> </ul>		
		programme		
		> recording/compiling info on:		
		family folder		
		growth cards		
		· CHW daily activity register		

Position title	Role	Tasks	Experience	Ability/skills
CHN	Training, super- vising and sup- porting the CHW in providing both preventive and curative health care and assisting them in providing basic health services	> Provide services:      vaccination     family planning     basic curative care     antenatal care > Supervise CHWs and TBAs     by doing home visits > Assist in continuing     surveillance through MIS > Provide on-the-job training     and continuous education     to the CHWs and mother	Two years experience in community work	Conduct health education. Know local languages
CHD		> Provide integrated maternal health care > Identify and analyse the present health problems of the community > Set goals, prepare plan of action and implementation strategies > Liaison and maintain coordination with the community leaders, govt. and non-govt. agencies for designing, implementing and maintaining community-based primary health care > Monitor progress by using information collected through the MIS and prepare annual progress report. > Provide ambulatory care > Organic continuing education programmes	6 month house job in * medicine • paeds • obs/gyn  Some experience working with community	Conduct health education. Attend community meetings

ning, etc.), which are subdivided into activities and tasks. These tasks are the basis for developing job descriptions.

Exhibit 24 illustrates a role and tasks list that management can use to produce this information. Notice how it includes the programme's goals, service objectives, and service strategies.



This is included to ensure that management defines roles and tasks that are consistent with the programme's goals, objectives, and strategies. A blank worksheet is found in Appendix E.

#### Prepare job descriptions and do feasibility checks

The next step is to develop individual job descriptions for each position, drawing on the roles, tasks, experiences, and skills summarised in the role and tasks list.

Most agencies have their own formats for job descriptions, and the roles, tasks, experience, and skills can be adapted to fit within any particular format. Exhibit 25 illustrates an example of a job description for a CHW position ( see Appendix E for a blank form). Before these job descriptions are finalised and submitted for approval, it is a good idea to conduct a "feasibility check" to make sure that the tasks are feasible and the requirements are realistic. Some test questions are shown below.

- Does the job description adequately reflect programme needs?
- Does the job description include all necessary activities/tasks?
- Is the projected workload reasonable?
- · Are suitable candidates available?

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- Are they likely to apply, given the terms and conditions of the job?
- Is the job secure; will there be adequate funding to continue it?
- Are there any other factors that could positively or negatively affect recruitment of suitable candidates?

If any problems are identified that would make the job description unfeasible then it should be altered accordingly or the problems should be dealt with before candidates are recruited.

## Post job announcement and recruit, screen, and select candidates

After the job description has been approved according to the agency's procedures, a job announcement can be posted or advertised. That announcement should be based on (or be identical to) the job description itself. Recruitment, Formats for job descriptions



#### Exhibit 25: Job description and announcement

1. POSITION TITLE	2. POSITION STATUS	DATE OF PREPARATION					
	2.1 Full-time a. Permanent	25 Feb. 1992					
	2.2 Part-time b. Temporary						
4 POSITION SUMMARY	4 POSITION SUMMARY To provide services and monitor the women and children in						
designated areas							
5. REPORTS TO 6. POSITIONS DIRECTLY SUPERVISED BY INCUMBENT							
Community health nurse	None						

#### 7. SPECIFY REQUIREMENTS:

7.1 Education/professional qualifications NA

#### 7.2 Experience and training

Not necessary, but a knowledge of community dynamics would be desirable

#### 7.3 Knowledge, skills, ability

Communications

Ability to conduct health education sessions

#### 8. DESCRIPTION OF DUTIES/RESPONSIBILITIES:

List duties under two separate headings: REGULAR DUTIES and PERIODIC DUTIES: During home visits and at PHC, educate and promote health through:

#### A. REGULAR DUTIES/RESPONSIBILITIES

Growth monitoring

Health education on nutrition, use of ORS, breast feeding, immunization, family planning personal/public cleanliness, identifying at-risk patients and referring them to PHC programme

Recording and compiling information on family folders, growth cards, CHW daily activity register

		70 I IML OF LIVE		
B. PERIODIC DUTIES/RE	30% GM			
Attend ongoing educati	30% Health education			
9. PREPARED BY:	9. PREPARED BY: 10. REVIEWED BY:			
Jazmi Hosein Izhar Sheraz		20% Ongoing education		



screening of candidates, and selection would follow normal agency procedures.

## Agree with selected candidates on role and task expectations

One step that is very important is for the manager and immediate supervisor to sit down with the selected candidate and discuss the job description openly and frankly. The purpose of this meeting is to clarify expectations on both sides: what management expects from the staff member, and what the staff member understands to be the role and tasks of the job. This will lead to the next portion of the process, described in Step 6: Develop individual work plans and schedules.

## Step 6: Develop individual work plans and schedules

#### Skip this step if:

Your programme already uses a performance-based assessment system

#### Review this step if:

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- · Your staff work plans are out of date
- They are not based on priority project tasks, or
- You have household registers, but no system for setting priorities.

The purpose of this step is to translate the individual job descriptions (developed in Step 5) into specific work plans for each staff member. Individual work plans should be based on:

1) the programme's clinic and outreach service plans (Step 4) and: 2) each person's job description (Step 5). Work plans list all planned activities, their sequence, the time when they should begin and end, the resources that will be needed to carry them out, and the person responsible for each task.

Step 4 showed how valuable information on service demand and needs could be compiled in registers. It also showed how targets could be computed for field workers. That information is used to identify the numbers of people who will probably need services, and those who are highrisk and deserve special attention. It can also be used to

Clarify expectations

Compiling registers



estimate the numbers of people who will need to be served each week or month. Individual work plans would take that information into account in determining how much time each staff person would spend on each task, at the site, and with each targeted individuals.

In most cases, each staff member should develop an annual plan that coincides with the programme's annual plan, and a second plan that is used to schedule monthly, weekly, or even daily activities. These plans may be developed individually, or in a group, depending on how much one person's plans affect another's. Often, the process of planning is as important as the plan. Work planning helps everyone to know what everyone else is doing and can be an effective tool for building team spirit and co-operation.

#### Advantages of work plans

There are many advantages to work planning, for the project, the team, and the individual:

- · To make sure that planned project activities are carried out
- To make sure that they are carried out in the correct sequence
- · To make sure that priority tasks are carried out first
- · To help the staff manage its time efficiently
- To maximise programme impact
- · To enable staff to coordinate their work with one another
- To facilitate monitoring of programme and individual performance.

Step 7 in this module describes how performance assessment can help to improve a programme's effectiveness. Good, realistic work plans are the key ingredient of successful performance assessment. That is because the plan is an obvious and convenient tool for monitoring progress, identifying problems, determining needs for change, and replanning.

Work plans usually list tasks in some sort of order of priority. This allows the supervisor and worker to agree on high-priority tasks and to focus more attention on monitoring those tasks. The key concept here is to always focus attention on those tasks that are essential to the programme's objectives.

List tasks in order of priority



#### Principles of good work plans

Good individual work plans include the same elements as good project plans:

- · A clearly stated purpose or objective
- A list of all activities or tasks that must be carried out to achieve the objective
- Specification of the priority tasks and activities
- A specific time frame for starting and completing all tasks
- · Clear indicators for measuring progress
- Specification of resources needed to carry out the work.

Work plans should be written out. That increases commitment to, and understanding of, the work to be carried out. It also helps to summarise the plan in a chart, calendar, or graph that reflects

#### Exhibit 26: Excerpt from a staff work plan

#### WORKPLAN

Name of person preparing workplan: Josephine Baker Performance period: November 1, 1992 · October 31, 1993 Task No. 1\_ of \_\_3

Statement of task assignment: Conduct routine and special home visits to all eligible households in areas C and D.

Key Sub-tasks and deadlines:

- 1. Build awareness of PHC services, advantages, how to get to them
- 2. Motivate eligible women to accept and use GM, immunization, ANC, FP, ORT
- 3. Identify and follow-up high-risk mothers and children
- 4. Refer pregnant women, malnourished children and others as approriate to the health centre
- 5 Conduct village meetings on PHC

Performance expectations, standards of performance:

- 1. Awareness will increase to 90% of households by the end of 1993
- 2. Acceptance and continued use of PHC services will reach the same level as for the programme
- All high-risk mothers and children in the area will be identified and referred no avoidable deaths will occur
- 4. All high-risk mothers and children will be visited at least monthly
- 5. At least one community health meeting will be held each week.

Name of supervisor on this task: Mustafa Bustamante Workplan approved by supervisor: M. Bustamante

Date: 1/11/92



the passage of time. That makes it easier to monitor progress.

Prepare a workplan with your supervisor. Prepare a separate plan for each task. List the major sub-tasks and performance expectations for each sub-task. There are no set number of sub-tasks, but 3-5 is common. Each time you are given a new task, you should prepare one of these work plans.

#### Scheduling of work

There are hundreds of variations of work plans, most of which include the elements described above. The difference is usually in formatting and emphasis. Some plans emphasise time, others emphasise tasks. The following examples illustrate both approaches.

#### Gantt charts

The Gantt chart is one of the oldest and most useful tools for summarising work plans. In PHC it is especially useful for summarising an annual, semi-annual, or quarterly plan. All major project activities can be displayed together with a schedule and persons responsible. These charts are also useful for special projects, such as research and training projects. An example is shown below.

Exhibit 27: Gantt chart of research project

	Months
Baseline study	Jan Feb Mar Apr May Jun Jul Aug Sep Oct
activities	
1. Plan survey	XXXXX
2. Design forms	XXXXX
3. Recruit interviewers	XXXXX
4. Train interviewers	XXXXX
5. Conduct survey	XXXXXXXX
6. Data entry and analysis	XXXXXX
7. Feedback to team	XXXX
8. Final report	XXXX

#### · Time and task charts

These charts are especially useful for short-term planning of a week or month. Both charts are self-explanatory. The first emphasises time. The left column lists the hours in a day, and the rows show the days in a week or month. The



chart can be modified for any time schedule: 1/4 hour, 1/2 hour, etc. on the vertical axis; Monday-Friday, Sunday-Saturday, Day 1-31, etc., on the horizontal.

Exhibit 28: CHN weekly work plan and schedule

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Time	Monday	Tuesday	Wednesday	Thursday	Friday
07:00					
08:00	Gen clinic	Community	Prenatal	Immuniz.	Com ed
09.00		health ed			
10:00					
11:00	Reports		Reports	Reports	
12:00	Lunch	Lunch	Lunch	Lunch	Lunch
13:00	PI-IC meet	Continued	Home visit	Lane meet	Reports
14:00					
15:00	Home visit	Home visit	Home visit	Home visit	Home visit
16:00	(#6-17)	(#18-29)	(#30-41)	(High-risk)	(#42-50)
17:00	End	End	End	End	End
18:00			-		
19:00		Community			
20:00		Meeting			

The second version shows the tasks on the vertical axis instead of time. The days are placed on the horizontal axis, as before.

Exhibit 29: Bi-weekly CHN work plan and schedule

Tasks: July 1-12				Days						
	Мо	Tue	We	Th	Fri	Mo	Tue	We	Th	Fri
Gen clinic	8-11					8-11				
Community ed		8-12			8-12		8-12			
Prenatal			8-11					8-11		8-11
Immunization				8-11					8-11	
Reports	11-12		11-12	1-12		1-12	1-12	1-12	1-12	1-12
PHC meeting	13.15									
Lane meeting							3-15		13-15	
Continuing ed		13-15				3-15				
Home visits	15-17	15-17	13-17	3-15				13-17		
High-risk visits								15-17		15-17
Lane meeting										
Com. meetings	19-21					19-21				

Routine scheduling of CHW household visits is especially important, and the above tools can also be used for that. The following example from Pakistan illustrates how a supervisor and four CHWs might develop a coordinated schedule.

Example: A CHW in charge of monitoring the health of 200 families who live in four lanes (L) also conducts lane health education sessions in her area. These are informal gatherings held outside, often in someone's front yard. It is a good way to reach small groups of neighbours.

## Exhibit 30: Coordinated schedules of several workers

MONTH	CHW A	CHW B	CHW C	CHW D
January	L1	L1	L1	L1
	Jan 5	Jan 12	Jan 19	Jan 26
February	L2	L2	L2	L2
	Feb 2	Feb 9	Feb 16	Feb 23
March	L3	L3	L3	L3
	Mar 3	Mar 9	Mar 16	Mar 23
April	L4	L4	L4	L4
	Apr 6	Apr 13	Apr 19	Apr 27
May	L1	L1	L1	L1
	May 4	May 11	May 28	May 25

Assigning CHWs

There are four CHWs in the programme who conduct these sessions. The supervisor is required to be present to assist in answering questions. Thus, the supervisor and CHWs need to coordinate their schedules.

The chart shows that CHW A will hold a lane session in the first week of the month, CHW B in the second week, and so on until all four CHWs have held a session in a lane. This process is repeated until all lanes have been covered.

Many projects assign CHWs to cover a certain geographic area. Typically, they are expected to visit periodically all of the households in that area. What often happens is that



they visit homes that are close more frequently than those that are far away. Some homes are never visited.

The following schedule, which is adapted from the Swarnivar Project in Bangladesh, illustrates one way to ensure that all houses are covered on a regular basis. Assuming that the area has been mapped and each house given a number, the work plan can specify which houses to visit each day. The example shows the schedule of one CHW who visits 15-20 houses each workday. Time is also allocated staff meetings and other activities.

This type of schedule can also be used to schedule selective visits to high-risk women and children, as described in Step 4.

Exhibit 31: Simplified CHW monthly workplan

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	kplan for: Lekha th: May		ge: Banglapur HH: 413
Day	Schedule	Day	Schedule
1	Holiday	16	Supervision session, #188-197
2	#1-#17	17	#189-212
3	#18-36	18	#220-240
4	#37-56	19	Day off
5	Day off	20	Day off
6	Day off	21	#241-256
7	#57.76	22	#257-275
8	<i>#77-95</i>	23	#276-299
9	#96-114	24	#300-321
10	#115-132	25	#322-345
11	#133-150	26	Day off
12	Day off	27	Day off
13	Day off	28	#346-369
14	#151-169	29	#370-390
15	#170 187	30	#391 413
		31	Staff meeting

#### · "To do" lists

These lists are especially useful for daily planning. Once again, they use the same two popular versions: one emphasising time, the other tasks.

Exhibit 32A: To do list

Exhibit 32B: To do list

Time	To Do Today
	Monday, July 3
07:00	
08:00	Prepare monthly report
09:00	
10:00	
11:00	Design training plan
12:00	
	CUTU
13:00	CHW meeting
14:00	CHN meeting
15:00	
16:00	Review TT/ANC printout
17:00	
18:00	
19:00	
20:00	

Tasks	To Do Today
Priorities	Monday, July 3
1	Prepare monthly report
2	Design training plan
3	Meet with CHWs to
	plan next week's HH
	ulsits
4	Review printout of
	women needing TT,
	ANC visits
5	CHN meeting

#### Duty rosters

These are used to distribute routine work equally among several staff members. This is particularly useful when services have to be provided continuously and where the work is either extremely interesting or boring.

**Example**: Staff normally work from 8 a.m. to 5 p.m. at the PHC centre. Due to community demand, an evening clinic is also provided. One of the six CHNs or LHVs (Lady Health Visitors) must be on duty during the evening clinics. The duty roster could look as follows, where a letter is used for each staff person (A - F).



#### Exhibit 33: Duty roster

Duty roster: Evening clinic: January						
	Mon	Tue	Wed	Thurs	Fri	
Jan 3-7	Α	В	С	D	E	
Jan 10-14	F	A	В	С	D	
Jan 17-21	E	F	A	В	C	
Jan 24-28	D	E	F	A	В	

### Step 7: Assess job performance

#### Skip this step if:

Your program already uses a performance based assessment system

#### Review this step if:

- · Your staff appraisal system is out of date
- Your system does not compare planned with actual job performance

The purpose of this step is to help staff to improve their job performance. By that we mean to help them to improve their effectiveness in reaching their (and the programme's) objectives and to increase their efficiency in carrying out their work (getting more done with less effort). The vehicle for doing this is continuous feedback on the staff person's work, comparing actual accomplishments with those set out in the work plans.

This type of continuous assessment is sometimes called "supportive supervision," coaching, or mentoring. The objective is not to find fault, but to work together with the staff to help them figure out how to do a better job.

The work plan is the key assessment tool because it links the worker's tasks to the programme's objectives. The better the worker does in accomplishing those tasks, the better the programme does in reaching its objectives. For that reason, assessments should be designed to examine how well the worker has done in carrying out the tasks agreed upon in the work plan.

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#### Principles of performance assessment

Health workers, supervisors, and managers are usually aware of the performance and problems of their staff long before a formal review is undertaken. This is one reason why continuous, supportive performance assessment is more important than periodic, formal job evaluations.

Good performance assessment is an ongoing process that depends on open communication between the supervisor and staff. It begins with feedback on work plan achievements but includes identification of problems, possible solutions, staff needs for training and skill development, and mutual agreement on steps that will be taken by both parties to improve job performance.

Obtain feedback on workplan achievement

The attitude and communication skills of the supervisor are very important in this process. If subordinates sense that they are being criticised rather than helped, they tend to withdraw, close off communication, and become defensive. Some key principles of effective performance assessment are shown below:

- · Focuses on improving worker performance
- · Supportive rather than critical
- · Praises accomplishments as well as identifies weaknesses
- · Educational rather than judgemental
- · Regularly and frequently conducted
- A collaboration between the supervisor and subordinate, not a top-down, parent-child relationship
- · Based on open, frequent communication, and mutual trust
- Designed to find solutions to problems, not to fix blame for them.

#### Continuous performance assessment

Every encounter between a supervisor and a staff member is an opportunity to assess performance and to provide constructive feedback, guidance, and coaching. Assessments can be informal discussions about assigned tasks, built into weekly work-planning sessions, or a team review of overall accomplishments.



As already noted, individual work plans should be the basic instrument for assessment, and changes agreed upon can be incorporated immediately into the next work plan.

Although this seems obvious, it is not done as often as one would expect. Assessments are frequently based on standardised criteria that may be unrelated to the job: loyalty, neatness, morality, and civil service test scores. If a CHW's main job is to visit 413 households every month to deliver six key health messages and to identify women and children who are high-risk, then those should be the assessment criteria. Did the CHW visit all 413 households? If not. why not? Is the caseload too much? What can be done to make it possible for her to visit everyone; should everyone be visited? Did she deliver the six key messages, and were they understood? If not, why not? Are some messages unclear, unnecessary? What can be done to help her deliver the messages clearly? Did she identify all of the women and children at risk? If not, why not? Are the criteria too vague? Does she need additional training?

By using the work plans, household registers, clinic registers, and other planning and recording instruments, the supervisor and staff can continually examine performance, identify problems, if there are any, and work together to find ways to solve those problems.

#### Formal performance assessment

At least once a year, most organisations require a formal assessment. If performance has been assessed continually throughout the year, the formal assessment should be nothing more than a summary of those assessments.

The informal, continuous performance assessments are not usually documented, however, and then a supplementary form may be needed. The following performance review form is actually the second part of the Work Planning form shown earlier (Exhibit 26). Together they make up a Work Planning - Performance Review form (WPPR). A complete form is provided in Appendix E. This form is convenient for summarizing both the general work plan and the annual assessment of performance.

Schedule a review of each task after it is completed or at the time of your annual review. Complete the self-assessStandardised assessment criteria



ment and submit it to your supervisor. Make sure to discuss the assessment with your supervisor.

## Exhibit 34: Excerpt from a staff performance review form

#### PERFORMANCE REVIEW

#### Self-assessment:

I believe that my performance has been very good this year. Awareness, motivation, and acceptance of PHC services all increased in my area. Several high-risk cases were referred and successfully treated, which made me feel good and also helped convince the community that our programme really works. My major problem is a lack of time. Based on the discussions we have had, I will recruit some mothers to help me visit some of the households that don't need special attention.

Supervisory assessment:

Josephine is one of the hardest working CHWs in the programme. She has made a special effort to learn how to identify high-risk infants, and that has resulted in several referrals that might otherwise have had a sad outcome. Josephine agrees that she needs to find someone to help her so that she will have more time to devote to high-risk cases. Her idea to recruit mothers is an excellent one and if it works, other CHWs may follow suit.

Supervisory approval: M. Bustamante

Date: 28/10/93



## Appendix B: Risk factors

#### Characteristics

Some health problems occur more often in certain sub-populations. For example, malnutrition often afflicts children under the age of five from poorer households. A healthy individual in a particular sub-population has a greater chance of contracting or developing health problems that are prevalent in the group. Examples of risk factors of pregnancy are early or late reproductive age, poverty, and high parity. A list of characteristics of risk factors is given below:

- Usually, risk factors reflect some kind of cause-effect relationship with the health problem, but other risk factors may reflect only the circumstances (such as geographical location in leprosy) which are associated with the development of a particular health problem. These risk factors may only indicate that a risk exists. For example, increasing age is a risk factor for developing osteoarthritis. This can only indicate that a risk exists, but is not amenable to change. Therefore, provision has to be made to cope with problems due to increasing age. Since nothing can be done to reverse the natural aging process, all one can do is learn the best ways to cope with the problems that may accompany it.
- Increased risk may be ascribed to characteristics of the individual (e.g. smoking), household (crowding, inadequate ventilation), or community (inadequate supply of drinking water).
- We see more diseases occurring and a higher IMR in the shanty towns of big cities. The people living here have a greater risk of having tuberculosis and diarrhoeal diseases than those living in other areas. In these shanty towns we usually see a high prevalence of the common risk factors (e.g., maternal illiteracy, unemployment, poor socioeconomic status, poor housing and sanitation). These reflect community risk factors.
- Often, only a combination of risk factors leads to a health problem while
  individual risk factors do not. For example, while most people in
  Pakistan are exposed to the tuberculosis organism, certain risk-groups
  are more likely to develop active tuberculosis. Although people may
  continue to be exposed to pathogens, their risk may change due to other
  factors. A polluted environment, for example, does not pose the same
  risk for adults as it does for children. This is because adults have
  developed immunity against a variety of pathogens.



- Many risk factors may only have harmful effects after some years, e.g., smoking, which makes their identification and control difficult.
- Risk factors may contribute to various outcomes:
- Multiparity contributes to various complications of maternity, e.g., abnormal position of the foetus, postpartum hemorrhage, and premature birth
- Similarly multiple risk factors can contribute to a similar outcome, e.g., first pregnancy, high parity, poor outcome of previous pregnancy, malnutrition, age of mother < 20 and > 35 years may all contribute to maternal complications.
- Risk factors often act as a chain of events. Any stage in a chain of events could be a risk factor for a subsequent stage.

Infection ————> Diarrhoea ————> Dehydration———> Death Poverty ————> High Parity ————> Low birth weight baby

The distinction between outcome and risk factor is not always clear. Sometimes the outcome from one risk factor serves as a risk factor for something else, e.g., low birth weight is an outcome of several risk factors but acts in itself as a risk factor for diarrhoea and death.

#### Measures of risk

A risk factor is a characteristic pertaining to individuals or groups that is associated with an increased chance of an unwanted outcome, such as illness or death. Risk factors may either **indicate** or **cause** an outcome and form part of the chain leading to illness or death. They may be amenable to change in which case the incidence of disease will drop. Some risk factors, such as age when associated with the occurrence of an unwanted outcome, necessitate the use of methods to compensate for greater care, since these risk factors cannot be changed.

Risk factors may be measured in terms of magnitude by

- Relative Risk
- Attributable Risk

#### Relative Risk

The "relative risk" (RR) is a measure used to determine the association between the characteristic and the disease in an observational study. To calculate RR it is important to know the number of new cases (incidence) occuring in the area.



## Relative Risk = Incidence of disease in exposed group Incidence of disease in nonexposed group

Example:		# of those ng cancer)	Controls (# of those without lung cancer)		
Smokers	(a)	200	(b)	300	
Non-smokers	(c)	50	(d)	450	
Total		250		750	

Using the numerical data above the relative risk would be estimated as follows:

RR = 
$$\frac{Incidence in the exposed}{Incidence in the unexposed}$$
 = 
$$= \frac{a/(a+b)}{c/(c+d)} = \frac{200/500}{50/500} = 4.0$$

This is interpreted as those who smoke are 4.0 times more at risk of developing lung cancer as those who don't smoke. A RR of 1.0 therefore means that there is no risk associated with the suspected factor. A RR < 1.0 confers a protective association with the factor.

Although incidence rates are not determined in a retrospective study (looking at past data of those who are affected and those not affected with respect to exposure status); the relative risk can be estimated by (a  $\times$  d)/(b  $\times$  c). This cross-product estimate or "odds ratio" (OR) can be made with either actual numbers or percentages. It is important for the cases and controls to be representative of the overall cases and controls respectively.

If you wanted to estimate the relative risk through the odds ratio, you would first have to go to existing data sources to determine the number of lung cancer cases in the community (cases). The next step would be to find controls (those without lung cancer) from records. These controls should be similar to the cases in mostly aspect except the factor that you suspect of increasing the risk of disease occurrence.

If the data in the above table were to come out from such a "case-control" design, you could use the OR to estimate the RR.

$$OR = \frac{a/b}{c/d} = \frac{a \times d}{b \times c} = \frac{200 \times 450}{300 \times 50} = 6$$

The interpretation of the OR show that the estimated RR is 6 times greater in smokers than non-smokers.



#### Attributable Risk

This measure of association is influenced by the frequency of a characteristic in the population. It is the additional incidence of disease following exposure over and above that experienced in an unexposed group.

The attributable risk (AR) is useful for PHC teams as it helps to estimate the extent that a specific factor contributes to a particular disease. As such, AR can be used to predict the impact a of control programme in reducing the disease incidence by reducing exposure to the factor.

The AR can be calculated using the formula:

## Attributable risk (AR) = Incidence in an exposed group — Incidence in a non-exposed group

AR can also be calculated from a formula which uses relative risk:

$$AR = \frac{b(r-1)}{b(r-1)+1} \times 100$$

where r = relative risk

b = proportion of the total population with the characteristic

Thus the AR depends on the frequency of a characteristic in a population and the relative risk for disease given this characteristic.

**Example:** The proportion of the total population that smokes cigarettes is 30%, i.e. 0.3, and the RR (as determined in the above example) is 4.0, the Attributable Risk (AR) is

$$AR = \frac{0.3 (4.0 - 1)}{0.3 (4.0 - 1) + 1} \times 100 = 0.47 \text{ or } 47.4\%$$

The interpretation is that smoking cigarettes contributes to 47% of lung cancer, while the remaining 53% is probably due to other risk factors.

#### Risk factors for selected diseases

The following reference sheet can serve as an information source for risk factors associated with the more common diseases.



### Reference sheet for risk factors for selected diseases (continued pages 88-89)

لما لما لما لما لما لما لما

Biological	Environmental	Socio-economic	Behavioural	Health care-related
Malnutrition				
Age Malabsorption Infections Pregnancy-related nutritional disorders Infections and disease during pregnancy Decreased gut immunity due to lack of breast feeding	Unsanitary conditions Drought Desertification	Poverty Illiteracy Large family Working mothers Violence/war	Feeding boys before girls Preference of adults in food distribution  Unwillingness to weigh children due to belief in evil eye Attributing malnutrition to supernatural causes and not food-related Breast feeding boys longer than girls Diet Inactivity, smoking, etc.	Lack or improper antenatal care Distant health care facility Drugs  Lack of drugs and diagnostic equipment Other diseases which are untreated Inadequate use of services
Diarrhoea/dehydration				
<ul> <li>Age</li> <li>Malabsorption</li> <li>Infections/infestations</li> <li>Gut immunity soon after birth</li> <li>Malnutrition</li> </ul>	Unsanitary Lack of water supply Lack of access to clean water	Poverty Illiteracy Working mothers Larger families	Improper hand washing Bottle feeding Delayed initiation of breast feeding Withholding food during diarrhoea Beliefs in spiritual healing Diet Inadequate use of ORS and other service	Distant health care/faciliy services  Lack of ORS, drugs Other untreated diseases Inadequate health care delivery system with no education  Prescription for antidiarrhoeal to stop diarrhoeal





### Reference sheet for risk factors for selected diseases (continued page 89)

Biological	Environmental	Socio-economic	Behavioural	Health care-related
Immunizable Diseases				
Immune system deficiency     H/o seizures	Unsanitary conditions     Lack of water	Poverty Illiteracy Large family	Fear of complication of immunization  No need for immunization, as previous generations have survived without it Belief that the TT for adult women is really a contraceptive Belief that immunizable diseases are not preventable	Access to services No outreach Improper cold chain Untrained personnel  Lack of supplies Lack of education of people regarding immunization  Lack of diagnostic treatment of cases
Breast feeding				
Malnourished mother     Cracked, inverted nipples     Breast abscess     Cleft palate     Anxious mother      Outck secession of	Advertisement of formula milk	Poverty Illiteracy Working mothers	Beliefs of hot/cold imbalance bad milk, etc.  Peer pressure or pressure from in-laws  Belief that colostrum is bad  Delayed initiation	Failure to advise breast feeding  Improper or lack of breast care in pregnancy  Failure to advise family spacing
pregnancy  • Malabsorption  • Cerebral palsy in infant			Belief of insufficient mother's milk Bottle fed babies are fat babies Convenience of bottle feeding	Advocating bottle (top feeds/ formula feeds)

#### Reference sheet for risk factors for selected diseases

Biological	Environmental	Socio-economic	Behavioural	Health care-related
Maternal mortality				
Irregular menstrual cycle Suppressed lactation leading to quick pregnancy Short maternal structure Previous H/o caesarian section	r menstrual cycle sed lactation to quick pregnancy aternal structure s H/o caesarian		Early age of marriage     Religious taboo     Man's strength lies in ability to procreate     Mother's strength lies in ability to bear children (fertile) especially sons     Improper diet     Improper use of services	Distant health care facilities Expense of contraceptive Supplies not available Improper/lack of training on use of contraceptives of workers in FP methods Targeting mainly couples who have completed their families for FP Failure to advise FP to those in need Failure to advise breast feeding Inability to reduce child mortality Untrained TBAs (improper delivery practices)
ARI	T	1		
Decreased immunity	Unhygienic condition	• Poverty	Spitting on ground	Improper training of health     workers
<ul> <li>Cerebral palsy</li> <li>Drug resistance</li> </ul>	Variation in humidity	Illiteracy     Large family/ crowding	Smoking     Beliefs of illness     causation and     subsequent training	Lack of treatment of facilities, e.g., drugs



# Appendix C: Assessment of community health facilities

The purpose of these instruments is to gather basic information about the availability, accessibility, and adequacy of health facilities in the programme catchment area. The first instrument can be used to identify and gather accessibility information about public and private health facilities (hospitals, health centers, dispensaries, and so forth). The second instrument can be used to take a quick inventory of the type of services offered by a facility.

C	1: Identification of	f community	health	tacilities
•	Community:			

INa	me of the vinage	neadman/ com	mumity leader.	
• Fac	ility survey			
SI no.	Facilities	In community Y/N	Accessible to community Y/N	Approximate distance
6.	Government health facility			
7	DC dispensary			

(1) < 5 km/60 min. (9) DK/NR	walk	_(2) > 5 km/60 min. walk
12. Which of the followin 12.1 Maternal and chi		vices are available?
(1) Yes		_(9) DK/NR
12.2 Family planning (1) Yes	(0) No	_(9) DK/NR

11. How far away is the nearest health unit or health worker?



Union council:

Name of surveyor:

Private dispensary
Bous school

Girls school

8.

9. 10.

1.	2.3 Immunization		
1.	(1) Yes	(0) No(9) DK/NR	
1.	2.4 Medical care ser (1) Yes	(0) No(9) DK/NR	
		st emergency care faciliti	es? (Probe for correct
answ	•	1 . 1	,
		ondent knows correct an ondent does not know co	
	(9) DK/NR	machi ades not know ee	in the transmer,
14 1	ocally available resc	urcae.	
L-T. L.	ocally available resc	ources:	
	onnel	Yes/No	Quantity
	rained TBA Intrained TBA		
	eachers		
	Dispenser		
	Compounder		
l5.	Is there any social (1) Yes (1)	organisation in the villag D) No(9) DK/NR	ge?
15.1	If yes, specify:		
15.2	How many member	ers does it have?	
16.		wn at least twice a day? )) No(9) DK/NR	
17.		the village own a car or )) No(9) DK/NR	vehicle?
8.	Is that vehicle used (1) Yes (0	l as an ambulance in em )) No(9) DK/NR	ergencies?
9.	How far is it from transport?		n where one can get the
20.	Is there any electrical (1) Yes(0)	city in the village? )) No(9) DK/NR	
21.	Any other importa	nt information about vill	age?



## C 2: Community health facility inventory

Fill this inventor	v out for each	h health facility	ty in the catchment area.
--------------------	----------------	-------------------	---------------------------

Type of facility:		3. lotal population in catchment area:
2. Catchment area:	kms	4. Type of service and referrals:

2. Catchment area: kms 4. Type of service and referrals:							
	Function Provision of services*				Number of patients seen/year	Number of patients referred onward	
1.	Outpatient medical services						
	1.1	Curative care					
	1.2	Maternal care					
	1.3	Dental care					
	1.4	TB clinics					
	1.5	Injections					
	1.6	Dressings					
	1.7	Dispensary/pl	armacy				
	1.8	Minor surgery					
2.		entative/promo	tive services	-		-	
	2.1	EPI					
	22	Diarrhoeal dise				-	
	2.3	Growth monitor			+		
	2.4	Family planning					
	2.5	Health educati					
3.		tient medical se	rvices				
	3.1	Medical				-	
		3.1.1	Male	-		-	
		3.1.2	Female				
	3.2	Surgical					
		3.2.1	Male				
		3.2.2	Female				
	3.3	Paediatric					
	3.4	Eye					
	3.5	Labour room					
4.		nostic services					
	4.1	Laboratory					
	4.2	X-rays				-	
5.	Trair	•					
	5.1	TBA training					
	5.2	CHW training					
	5.3	Dispenser trai	ning ch. 3 Both centre				

<sup>\*</sup> Codes: 1. Centre 2. Outreach 3. Both centre and outreach



5.		ou encounter majo	or					
	6.1	Drugs			(1) Yes		(2	) No
	6.2	Vaccines			(1) Yes			) No
	6.3	Staff shortage			(1) Yes			) No
	6.4	Equipment			(1) Yes		(2	No No
	6.5	Vehicles			(1) Yes		(2	) No
7.	Wha	t transport is availa	able at the	e centre (ple	ase check	all that ar	(vla	
	7.1	Ambulance			(1) Yes			) No
	7.2	Car		(1) Yes			(2) No	
	7.3	Motorcycle		(1) Yes			(2) No	
	7.4	Bicycle		(1) Yes			(2) No	
	7.5	Others			(1) Yes	-	(2	No No
3.	Staff	positions:						
					Staff	positions		
Cat	egory		San	nctioned		osted		acant
			M	F	М	F	М	F
			_					
_			_					
			_					



## Appendix D: CHW activity register

### Instructions for filling out the CHW activity register

Form location: Health centre

Data recorder: Community health worker

Data provider: Adult female family member taking care of the

children in the family and CHW

Supervisor: Lady Health Visitor (LHV)/Community Health

Nurse (CHN)

Initial recording: 1st month of the year Updating: During routine home visits

### Purpose

· To help CHW monitor the health status of her target population

To help CHW evaluate her own performance

To help LHVs/CHNs identify problems and support the CHW

· To help in summarising information for preparation of quarterly reports

#### Procedure

#### · Initial recording

To be filled by the CHW at the **beginning of each year** using the family folders. Information on new births, newly married women and migration-ins should be included when they become a part of the registered population. Children reaching an age greater than three years, women who come out of the married child bearing age category and migration-outs should be excluded by crossing out the ID and making a note in the remarks.

**Serial No.** Serial number given to each family listed

**House No.** Sector (division) number and house (structure)

number separated by a point, e.g., S.123, AF.266. -where **S** and **AF** are the sector numbers and **123** 

and 266 are house numbers

I.D. No. 3 I.D. of under 3 child. e.g., C1

Married women I.D. of married women e.g., M (extreme right)

#### Children < 3 years of age</li>

- Age of child. Three years at the beginning of the quarter in years and months separated by a point, e.g. 2.6 (i.e., 2 years and 6 months)
- 2, 3 and 4 Newly identified live births. Birth date (dd/mm/yr) of all new borns identified during the visit. (Enter the child's information in family folder and make a yellow child growth card for the mother). The births recorded in this column do not necessarily have to have occurred during the month/quarter the visit took place. For example, the birth date of a child born in a registered household and identified three months after the birth should also be recorded in this column in the quarter that the child was identified. However, the age of the child at the beginning of the quarter should be recorded in the age column.

Birth weight of child if child was weighed within 48 hours after birth. Circle if the child was a low birth-weight baby, that is  $< 2.5 \ kg$ .

**Still birth.** Date of delivery of the stillborn child. A still birth is a child born dead during or after the seventh month of pregnancy.

- Weight of < 3 child in first month of the quarter.
- 6-8 **Weight change.** Appropriate code for change in weight of the child compared with its weight in the previous month:

Code:

+ = gain

0 = stable - = loss

NW = not weighed

**Nutritional status.** Appropriate code for nutritional status of the child last month of quarter.

Code:

N = normal

I = First degree (mild) malnourished

II = Second degree (moderately) malnourished

III = Third degree (severely) malnourished



9

irn

Immunization. Appropriate code for immunization status, last month quarter of children < 1 year.

Code:

C = Complete with BCG, DPT/polio (1,2 &3) and measles

A = Appropriate # of doses of vaccines for age of the child according to the following schedule.

At birth: BCG

1 1/2 months (6 wks): 1st dose DPT and polio

2 1/2 months (10 wks): 2nd dose DPT and polio

3 1/2 months (14 wks): 3rd dose DPT and polio

9 months (40 wks): measles

IC = At least one dose but not appropriately immunized for age (incomplete)

N = No immunization (none)

#### General

- 11-13 **Date of visit.** Date of first positive visit, i.e., when mother is available during the visit, under the appropriate month.
- Deaths. ID of all identified deaths that occurred at anytime during the quarter. Record the approximate date and age at the time of death in the family folder.

The deaths recorded in this column do not necessarily have to have occurred during the month/quarter the visit took place. For example, if the death of an individual who died in October is identified in January, then record the death in the January-March quarter; but write the month of death next to the ID.

#### · Married women 15-49 years

- 15, 16 **Pregnant.** If the woman is pregnant, record month of pregnand 18 nancy
- 17 **Family planning.** Tick for couples practicing family planning last month of quarter.
- 19 **Immunization status** (for all women last month of quarter):
  Appropriate code for tetanus toxoid.
- 20 **Delivered** (any time during quarter). Appropriate code for tetanus toxoid immunization status of woman who delivered in this quarter.

#### Code:

- C = Married women: Completed two doses of TT, Women who delivered: Complete with two doses during pregnancy. Or two doses before pregnancy and a booster dose during pregnancy (at least 15 days before delivery) till a maximum of five doses of TT.
- IC = Married women: Only one dose of TT (incomplete) for women who delivered. No doses before pregnancy and only one dose during pregnancy or one to four doses before pregnancy and no dose during pregnancy
- N = All women: No dose of TT (none)

#### · No. of family members

Total number of family members in the household. Update as and when this changes.

#### Totals

Total the columns according to the following schedule: 1st month of the quarter: Column # 1, 6 and 11 2nd month of the quarter: Column # 1, 7 and 12 End of quarter: Column # 1, 2, 3, 4, 6, 8, 9, 10, 13, 17, 18, 19, 20, 21 and 22.



Exhibit 15: CHW activities register (continued, page 100)

			Childre	n < 3 years								
Srs.	Household No.	ID No.	Age	Newly ide	entified bi	irth	Jan.		Feb.	March		•
				Li	ve	Still	Wt.	*Wt.	*Wt.	· Wt.	"Nut St.	"Imm St.
				DT	BW	DT		Ch	Ch	Ch		(<1)
			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	:											
Total												

· WEIGHT CHANGE

+ = Increase in weight

O = Same weight

- = Decrease in weight

" NUTRITION STATUS

N = Normal

First degree malnourished

= Second degree malnourished

II = Third degree malnourished

NW = Not weighed





### Exhibit 15: CHW activities register

				Deaths	Married women							
Srs.	Jan.	Feb.	Mar.	Jan Mar.		Feb.	March		***Immunization status		ID#	Number of family mambers
				ID#	PR	PR	FP	PR	All	DLVD		-
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
*-												

\*\*\* IMMUNIZATION STATUS

= Complete

IC = Incomplete for age

= Appropriate for age

Ν = No immunization

NB = New born BW = Birth weight

LBW - Low birth weight

PR - Pregnancy month of pregnant woman

DLVD - Women who have delivered during the quarter

FP - Family planning

DT - Date

## Appendix E: Blank worksheets

### Exhibit 1: Worksheet for defining catchment area

a)	Select criteria to define the boundaries of your catchment area.  Fixed distance of kms around health facility Administrative unit (specify level and name) (sub-district) in (district).  PHC service target group, socio-economic or geographically defined population A practically defined population (please specify)	
ь)	Define sub-catchment areas for different services:  Curative care MCH Family planning TB Other	7

### Exhibit 2: Worksheet for describing catchment area

Level	Information	Data sources
District		
Facility		
	4	
Community or village		NEALTH CAN
		THE GRAPH
		INFORMATION CENTRE
		Aliment Aliment



Exhibit 3: District level map - Map A

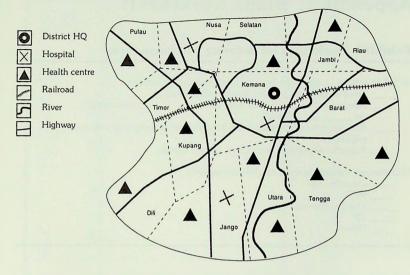
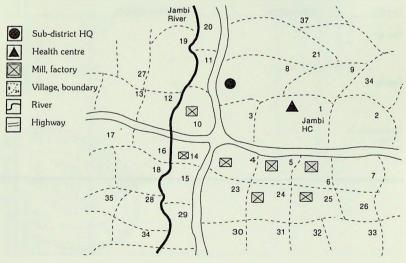


Exhibit 4: Health facility level map - Map B



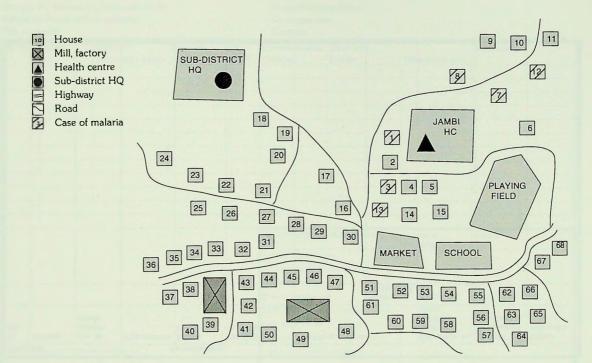


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EII.

NID.

### Exhibit 5: Community/village level map -Map C





## Exhibit 8: Worksheet for determining indicators and source of indicators

and source of marcarors					
INDICATORS	SOURCE				
1. Health status indicators					
2. Demographic indicators					
3. Risk factors					
4. Health service-related					



# Exhibit 9: Worksheet for setting priorities among health problems

#### INSTRUCTIONS:

16

24

45

11

35

H

- List the different health-related problems.
- Select the criteria used to assess the magnitude and importance of the problem (e.g., prevalence, seriousness, etc.).
- Decide what scale to use for scoring, i.e., 0-4 or 0-10, etc., and the method to use for totalling (addition or multiplication).
- Assign scores to each problem for the different criteria and calculate the totals.

Health problems	Criteria			Scoring method
			17	



#### Exhibit 10: Risk factors

iological	Environmental	Socio-economic	Behavioural	Health care-related

# Exhibit 11: Worksheet to develop risk profiles of households

CONDITIONS	SCORE IF PRESENT	HOUSEHOLD NO.
Total risk score		

Rating scale: Low risk Moderate risk High risk 0-3 4-6 >7

3

1

45

A





# Exhibit 12: Worksheet for identifying services, strategies and activities

Service/component	Strategy	Activities		
		List	Who will do it	How and when

# Exhibit 13: Planning PHC activities (continued, page 112)

Services/activiti	es needed		Manpower	Manpower		Logistics/supplies			Optimal level of	
A. Community- based	Target group	Frequency	Required		Available	Required		Available	services	
_			Type	Number (FTEs)		Type	Amount		given resource constraints	
								_		
B. Outreach										
					_					
	1									





Exhibit 13: Planning PHC activities

Services / activi	ties needed		Manpow	er		Logistics / supplies			Optimal level
C. Clinic-based	Target group	Frequency	Required		Available	Required		Available	of services given resource constraintS
			Туре	Number (FTEs)		Type	Amount		
Total									

Exhibit 14. Worksheet to determine stan requirement	Porksheet to determine staff requirement	ne staff	determine	to	Worksheet	14:	Exhibit 14
-----------------------------------------------------	------------------------------------------	----------	-----------	----	-----------	-----	------------

Number of households in PHC catchment area = ?

Frequency for visiting each household = ?

3

-

-

-31

3

ME

-0

10

3

Number of days when outreach will be provided = ?

Staff capacity per month = days/month x HH visits/day per CHW Staff capacity = ?

Staff requirement = HHs to be covered/staff capacity per month Staff requirement = ?





#### Exhibit 15: CHW activities register (continued, page 115)

			Childre	n < 3 years								
Srs.	Household No.	ID No.	Age	Newly id (JanMa	entified b	irth	Jan.		Feb.	March		
				Li	ive	Still	Wt.	'Wt.	· Wt.	· Wt.	"Nut St.	"Imm St
				DT	BW	DT		Ch	Ch	Ch		(<1)
			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Total												

- \* WEIGHT CHANGE
- + = Increase in weight
- O = Same weight
- = Decrease in weight

- " NUTRITION STATUS
- N = Normal
- = First degree malnourished
- II = Second degree malnourished
- III = Third degree malnourished
- NW = Not weighed

#### Exhibit 15: CHW activities register

Date	of visits			Deaths	Married	women						
Srs.	Jan.	Feb.	Mar.	Jan Mar.	Jan.	Feb.	March		***Immur status		ID#	Number of family mambers
		-		ID#	PR	PR	FP	PR	All	DLVD		
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
						8						

\*\*\* IMMUNIZATION STATUS

= Complete

IC = Incomplete for age

A = Appropriate for age

N = No immunization

NB = New born

BW = Birth weight

LBW = Low birth weight

PR = Pregnancy month of pregnant woman

DLVD = Women who have delivered during the quarter

FP = Family planning

DT = Date



# Exhibit 16: CHW activity record (continued, page 117)

Name of CHW:	Village:		Month:
		Homes visited this month	00000000
ANT		Meetings attended this month	00000000
	3	Children who have completed vaccination	00000000
		Children who have not had a single immunisation	00000000
		Children suffering from diarrhoea	00000000

INSTRUCTIONS: Fill one circle for every case



#### Exhibit 16: CHW activity record

Month: Name of CHW: Village: Children identified 00000000 malnourished this 00000000 month 00000000 Children suffering 00000000 from ARI 00000000 00000000 Number of referrals 00000000 76000 made 00000000 00000000 Children born this 00000000 month 00000000 00000000 Children who died 00000000 this month 00000000 00000000 Mothers who died 00000000 this month 00000000 00000000

INSTRUCTIONS: Fill one circle for every case



11

2

.

Year: Mo	onth: Div	ision:T	BA name:
	ZB.		
00000	Deliveries assisted	00000	Abortions
0000000	00000000	00000000	000000000
0000000	00000000	0000000	000000000
AA			
00000	Antenatal visits	OOOO Fami	ly planning accepted
00000000	00000000	0000000	000000000
0000000	00000000	0000000	000000000
0000000			
00000	Postnatal visits	00000	
00000	Postnatal visits	00000	Low birth weight
00000	Postnatal visits	00000	Low birth weight
00000	Postnatal visits	00000	Low birth weight
00000	Postnatal visits		Low birth weight
00000	Postnatal visits		Low birth weight



# Exhibit 17: TBA monthly record

P

-

T

Year: Month: Divi	sion:TBA name:
	A COSOS
OOOOO Postnatal referral	OOOOO Pre-term
000000000000000000000000000000000000000	0000000000000000
0000000000000000	000000000000000000000000000000000000000
	n n
OOOO Referral in labour	OOOO Normal labour
000000000000000000000000000000000000000	000000000000000000000000000000000000000
000000000000000000000000000000000000000	000000000000000000000000000000000000000
OOOOO Still births	OOOO Prolonged labour
000000000000000000000000000000000000000	0000000000000000
	000000000000000000000000000000000000000
000000000000000000000000000000000000000	000000000000000000000000000000000000000
000000000000000000000000000000000000000	00000000000000000000000000000000000000
000000000000000000000000000000000000000	000000000000000000000000000000000000000
00000000000000000000000000000000000000	00000000000000000000000000000000000000

# Exhibit 18: LHV activity register

# Name of LHV:

Month:

ate	Village	Purpose	of visit									Actions taken
		Support	Training	Meetin	g	Visit	Sessio	ns on		Others	No. of	Actions taken
		visit	session CF	CHWs	Community	high risk	IMM		Health education	(specify)	participants or persons visited	

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Exhibit 19: Target list of women to be immunized

Reg.#	Name	Age	Preg- nant	TT1	TT1 Date	TT2	TT2 Date	Booster	Booster Date
			-						
						-	ļ		
						1	-		
						1			
			-			1			
			-			_			
							ļ		
						<b>_</b>	ļ		
						ļ			
						ļ			
						1			
						-			
						<u> </u>			
						1			
						1			
						1			

# Exhibit 20: Individual medical record

	NDIVIDUAL MEDICAL RECORD Fill this form for every encounter)
Name:	Date of visit:
1 History:	
2. Physical examination:	T: P: BP: R:
3. Assessment:	4. Plan:
Investigation	Treatment



#### Exhibit 21: Individual medical record

1.5

:5

3

-0

I

4

- 45

AL AL

= 10

LA

1

Household #:	Individual #-	Medic	al record#						
Patient Name:		Fathe	r/husband n	ame.					
Date of birth:	Sex (M/F)	Heigh	ıt:	Weight					
Past history:	Diagnosis	Hospi	italisation	Medication					
Drug allergies: Y/I	N (specify):								
	eck appropriate boxes):	Smoking	Alcohol	Drug use	Occupation				
	heck appropriate boxes)	Smoking_	_Alcohol_	_ Drug use	Occupation				
VISIT DATES									
1 Tuberculosis									
2 Polio									
3 Diph/pertus./	tetanus								
4 Measles									
5 Mumps									
6 Malnutrition									
7 Diarrhoea/dys	sentary								
8 Intestinal para	sites								
9 Hepatitis/jaur	ndice								
10 URTI									
11 Pneumonia/b	ronch (LTRI)								
12 Other LTRI/a	sthma								
13 Skin problems									
14 UTI									
15 Fever > 5 days	5								
16 Pregnancy-rel	ated problem								
17 Anaemia									
18 FP complication	ons								
19 Gynaecologica	al problems								
20 Hypertension,	/ischaemic								
21 Diabetes									
22 Musculoskelet	al disorders								
23 Mental illness									
24 Dental problet	ms	1-1-1-							
25 Eye problems									
26 Errors of refra	ction	+-+-							
27 Ear problems									
28 Accidents/inju	rrips	1 1							
29 Handicaps	nic.								
27 Handicaps		1 1-1-	1-1-1-1						

# Exhibit 22: Daily clinical treatment record

1   2   3   4   5   6   7   8   9   10   Total	Name of clinic: Date:		_	MO,	/CHI	4		Registered:				
Household No/Reg. No.   ID #:   Sex. M/F		1	2	3	4	5	6	7	8	9	10	Total
D #;   Sex. M/F	Household No /Reg. No	-	+	1		1						
Sex. M/F   Age. ( Years)		+-	$\top$	1								
Age: ( Years)  < 1 1-5 6-15 16-49 Over 49 Routine ANC Routine well-baby 1 Tiberculosis 2 Polio 3 Diph/pertus/tetanus 4 Measles 5 Mumps 6 Malnutrition 7 Diarrhoea/dysentary 8 Intestinal parasites 9 Hepatitis/jaundice 10 URTI 11 Pneumonia/bronch. (LTRI) 12 Other LRTI/asthma 13 Skin problems 14 UTI 15 Fever > 5 days 16 Pregnancy related problem 17 Anaemia 18 FP complications 19 Gynaecological problems 20 Hypertension/ischaemic 21 Diabetes 22 Musculoskeletal disorders 23 Mental illness 24 Dental problems 25 Eye problems 26 Errors of refraction		+-	1	_								
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16-49		+-		1								
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Routine well-baby		1										
Routine well-baby	Routine ANC			1	_							
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26 Errors of refraction		-	<u></u>									
		-										
27 Far problems		-										
	27 Ear problems											
28 Accidents/injuries		<u> </u>										
29 Handicaps	·	-	-									
30 Other (Specify)  REFERRED BY (Code**) *F = First visit for a disease *R = Repeat visit for the same disease		L.,										

REFERRED BY (Code\*\*) \*F = First visit for a disease \*R = Repeat visit for the same disease REFERRED TO (Code\*\*\*) \*\*1. CHW 2. TBA 3. Others (specify) \*\*1. Azam Basti 2. AKU 3. Other (specify)



# Exhibit 23: Drug supply (continued, page 126)

Name	e of centre:	Previous balance	Rec'vd	Total					D	ates	•				_	Issued	Balance	Cost
7	Acetyl Salicylic Acid Tab. 300 mg		-			+	+	+	+	+	+		-	-	$\dashv$			
2	Aluminum and Magnesium Hydroxide Tabs.				-	_	-	+			+	$\vdash$			1			
3	Aminophyllin Tab. 100 mg				$\dashv$	1	$\dashv$	+	+	+	+			_	_			
4	Benzyl Benzoate 25% solution				-	$\dashv$	+	+	+	+	+-		-	-	1			
- 5	Betamethasone Cream						+	+	+	+	+-			-	7			
6	Buscopan 10 mg Tabs.			-	$\dashv$	-	+	-		+-	+	$\vdash$	_	_	1			
7a	Chloramphenical Eye Ointment		-	-	-	1	_	+	+	+	+-			$\dashv$	7			
7b	Chloramphenical Syrup				-	_	_	+	-	+	+	$\vdash$		$\dashv$	7			
7c	Chloramphenicol Capsule		<del> </del>		1		$\dashv$	+	-	+-	+				7			
7d	Chloramphenical Eye Drops (Btls)		-				-	$\top$	+			$\Box$		_	_			
8a	Chloroquin Syrup		1		-	-	$\dashv$	_	_	+	+-		_		1			
8b	Chloroquin Tab. 250mg					1	+	_	-	+	+	$\vdash$	_	_	1			
9a	Cotrimoxazole (Double strength)	<b></b> -	1			7	-	+					_	-	1			
9b	Cotrimoxazole Surup					-	Ť	$\top$	_	+	+		_	_	-			
10	Chlorpheniramine Tabs. 4 mg						7	+		$\top$	1			1	7			
11	Diazepam 5 mg. Tabs. (Relaxipam)						_		$\top$	1				T	1			
12a	Ferrous Sulphate Tabs. 200 mg.					$\dashv$			+	$\top$					7			
12b	Ferrous Sulphate Syrup										$\top$		T	T	寸			
13	Folic Acid Tabs. 5 mg							1	$\top$	T	T		T	_	7	-		
14	Gradinal Sodium Tabs. (Phenobarb)						T			1			$\neg$		7			
15	Gentian Violet 1% Aqueous Solution				$\Box$		7			$\top$	1			$\exists$	7			
16	Melanamic Acid Tabs. (Ponstan)							1			$\top$				1			
17	Metronidazole Syrup							1		T								
17a	Metronidazole Tab. 200 mg																	
/						_	_	\	\			_		_			_	





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		1	1	1.1	1 1		1.1	1	1
18	Neomycin and Bacitracin Oint. Skin 15 mg								
19	Nystatin Vaginal Pessaries								
20	Nystatin Oral Drop (Nilstat)								
21	Otosporin Ear Drops								
22	Oxytetracycline Tab. 250 mg								
23a	Paracetamol Tab. 500 mg								
23b	Paracetamol Syrup								
24a	Phenoxymethyl penicillin Tabs. 250 mg								
24Ь	Phenoxymethyl penicillin Syr. 250 mg								
25	Pyrantel Pamoate susp.								
26	Theophyllin Syr. 150 mg/ 5 ml								
27	Whitefield's Ointment in kg								

#### Exhibit 24: Role and tasks list

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PHC programm	ne goals:			
Service objecti	ives:			
Strategies:				
Position title	Role	Tasks	Experience	Ability/skills

#### Exhibit 25: Job description

23. 800 desi									
1. POSITION TITLE	2. POSITION STATUS 2.1 Full-time a. Permanent 2.2 Part-time b. Temporary	DATE OF PREPARATION							
4. POSITION SUMMARY									
5. REPORTS TO 6. POSITIONS DIRECTLY SUPERVISED BY INCUMBENT									
7. SPECIFY REQUIREMENTS:									
7.1 Education/professional qualifications									
7.2 Experience and training									
7.3 Knowledge, skills, abilit	у								
8. DESCRIPTION OF DUT		CO. L DEDIGDIO DI ITIES							
List duties under two sepai	rate headings: REGULAR DUTI	ES and PERIODIC DUTIES:							
A. REGULAR DUTIES/RE	ESPONSIBILITIES	% TIME SPENT							
		% TIME SPENT							
B. PERIODIC DUTIES/RESPONSIBILITIES									
9. PREPARED BY:	10. REVIEWED BY:								

# Exhibit 27: Gantt chart

Months										
Activities Jan No	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	
1					W.					
2 3										
4										
5										
6										
/										



Exhibit 28: Weekly work plan and schedule

Time	Monday	Tuesday	Wednesday	Thursday	Friday
07:00					
08:00					
09:00					
10:00					
11:00					
12:00					
13:00					
14:00					
15:00					
16:00					
17:00					
18:00					

# Exhibit 29: Bi-weekly CHN workplan and schedule

Tasks:					Da	ıys				
	Мо	Tue	We	Th	Fri	Mo	Tu	We	Th	Fri
General clinic										
Community education										
Prenatal										
Immunization										
Reports										
PHC meeting										
Lane meeting										
Continuing ed										
Home visits										
High-risk visits										
Lane meeting										
Community meetings										

Exhibit 30: Coordinated schedules of several workers

MONTH	CHW A	CHW B	сни с	CHW D
January				
February				
March				
April				
May				

Exhibit 31: Simplified CHW monthly work plan

Day	Schedule	Day	Schedule
1		16	
2		17	
3		18	
4		19	
5		20	
6		21	
7		22	
8		23	
9		24	
10		25	
11		26	
12		27	
13		28	
14		29	
15		30	
		31	



#### Exhibit 32A: To-do list

Time	To Do Today
07:00	
08:00	
09:00	
10:00	
11:00	
12:00	
13:00	
14:00	
15:00	
16:00	
17:00	
18:00	
19:00	
20:00	

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#### Exhibit 32B: To-do list

	LAIIIUIL	32D:	io-do list
	Tasks	To Do	Today
	Priorities		
ı	1		
ı	2		
	3		
	4		
	5		
	U		
	6		
ı			

#### Exhibit 33: Duty roster

Month	Mon	Tue	Wed	Thurs	Fri
	-				
				-	

#### Exhibit 34: Work plan performance review instructions

**Purpose:** The purpose of the WPPR system is to make sure that you and your supervisor have a common understanding of your assignments, performance expectations, and actual performance. This system was designed to help you as much as your supervisor. It is your responsibility to keep your WPPR up to date and to schedule work planning and performance reviews with your supervisor.

**Work plan:** Prepare a work plan with your supervisor. Prepare a separate plan for each task. List the major subtasks and performance expectations for each sub-task. There are no set number of sub-tasks, but 3-5 is common. Each time you are given a new task you should prepare one of these work plans.

**Performance review:** Schedule a review of each task after it is completed, or at the time of your annual review. Complete the self-assessment and submit it to your supervisor. Make sure to discuss the assessment with your supervisor.

WORKPLAN		
Name of person preparing work plan: Performance period: Task No of		
Statement of task assignment:	and a field assisted the same	
Key sub-tasks and deadlines: 1 2. 3. 4. 5. Performance expectations, standards of performance: 1. 2. 3. 4. 5.		
Name of supervisor on this task: Work plan approved by supervisor: Date		



# References and bibliography

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# Acronyms and abbreviations

AIDS Acquired Immune Deficiency Syndrome

AA Administrative assistant
AKF Aga Khan Foundation
AKU Aga Khan University
ANC Antenatal care
CBR Crude birth rate
CDR Crude death rate

CHD Community health doctor
CHN Community health nurse
CHW Community health worker
CO Community organiser

EPI Expanded Programme for Immunization

FTE Full time equivalent FP Family planning GM Growth monitoring

HH Household

IEC Information, education, communication

IMM Immunization
IMR Infant mortality rate

KAP Knowledge, attitudes, practices (behaviour)

LHV Lady health visitor

LRTI Lower respiratory tract infection MCH Maternal and child health MIS Management information system

MOH Ministry of health

NGO Non-governmental organisation

OR Odds ratio

ORS Oral rehydration salts
ORT Oral rehydration therapy
PHC Primary health care

PHC MAP Primary Health Care Management Advancement Programme

RR Relative risk
SP Security person
TB Tuberculosis

TBA Traditional birth attendant

TFR Total fertility rate TT Tetanus toxoid

URTI Upper respiratory tract infection

UTI Urinary tract infection

WPPR Work-planning performance assessment



# Glossary

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**Catchment (area):** The geographic area surrounding one or more health facilities or service provision sites. It refers to the population residing in that area, which includes all or a portion of the programme's target population.

**Community:** A group of people having common organisation or interests or living in the same place under the same laws.

Community health worker (CHW): A person indigenous to the community who provides basic health promotion disease prevention and selected curative health services to members of the community. Includes village health workers, health guides, LHVs and other terms.

**Coverage:** The percent of a target group that has received a service or is protected from a disease or health problem.

**Effectiveness:** The degree to which desired outcomes are achieved.

**Efficiency:** The degree to which desired outcomes are achieved without wasting resources.

**Goals:** The impact your programme hopes to have on health. Goal statements specify improvements desired, target groups, amount of change expected and date for achievement.

**Incidence:** The number of new cases of a disease in a defined population during a specific period of time.

**Indicator:** An indirect measure of an event or condition. For example, a baby's weight-for-age is an indicator of the baby's nutritional status.

**Inputs:** Resources (personnel, materials, equipment, information and money).

**Institution:** An established organisation, group, agency or other formal entity.

**Management:** The art and science of getting things done through people. **Objectives:** The output and/or effect that a programme hopes to achieve. **Outcomes:** Results of programme, including outputs, effects and impacts.

**Outputs:** Products and services provided by a PHC programme **Effects:** Changes in knowledge, skills, attitudes and behaviour, (including coverage) as a result of a PHC programme.

**Impacts:** Changes in health status, (mortality, morbidity, disability, fertility) as a result of a PHC programme.

**Percentage:** A proportion multiplied by 100. For example 3,500 children immunized out of  $5,000 \times 100$ . (3,250/5,000) \* 100 = 65%.

**Performance:** The actual output and quality of work performed.

**Prevalence:** The total number of cases of a disease in a defined population at a specified point in time. Also used with "coverage," as with the "contraceptive prevalence rate," meaning the proportion of the target population that is currently practising family planning.

**Primary health care:** Essential health care, accessible at affordable cost to the community and the country, based on practical, scientifically sound and socially acceptable methods. It includes at least eight components: health education, proper nutrition, clean water and basic sanitation, maternal and child health care, immunization, control of common diseases and injuries, prevention of local endemic diseases, and supply of essential drugs.

**Processes:** Activities or tasks carried out in programme.

**Proportion:** A special type of ratio expressing a relationship between a part and the whole. For example, 3,250 children immunized out of 5,000 (3,2500/5,000 = .65).

Rate: A measure of the frequency of occurrence of an event, such as cases per month.

**Ratio:** Two numbers related to each other in a fraction or decimal, such as the number of cases of measles per 1,000 children. Any fraction, quotient, proportion, or percentage is a ratio.

**Register:** A written or printed record containing regular entries of events or other items, such as name, address, births, deaths, symptoms, treatments given, and so forth. Typical registers are for households, families, individual visits to health facilities, and daily visits of health workers to households.

**Risk factor:** A characteristic of an individual or group that is associated with an increased chance of contracting a disease, having a health problem, or dying.

**System:** A set of discrete, but interdependent, components designed to achieve one or more objectives.

**Target group:** Specific groups of people designated to receive a PHC service, such as children under age two designated to receive immunizations.



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MODULE 3 USER'S GUIDE



