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ANALYSIS OF THE CONTENT OF THE EIGHT ESSENTIAL ELEMENTS OF PRIMARY HEALTH CARE

Final Report to the HPC
by the
HPC Working Group on PHC
10 August 1981

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This document attempts to analyse in matrix format the desired or required "programme content" of the eight essential elements\* of primary health care at the four basic levels: the home, the community, the first health facility and first referral level. Prepared for use within WHO in the first instance, it is fully appreciated that the finalization of the document must result from experiences gained in the practical integration of the different activities in country settings; but, even so, the document in its present form can be useful at the country level for the planning and management of PHC/HFA strategies.

Part I consists of an introductory paper, explaining the conceptual framework within which the work was carried out; a brief paper defining the four levels of care and the persons involved at these levels; and lastly, a set of narrative summaries which complement the matrices. Part II is a detailed analysis, in the form of 10 matrices, of the type of activities and tasks that have to be carried out at the four levels, of the persons or professional categories that will be involved and of the type of support or material they will need. Two of the elements (prevention/control of locally endemic diseases, and appropriate treatment of common diseases/injuries) have each been exemplified by two matrices (malaria and hypertension; diarrhoeal disease and accidents in the home). The matrices can serve the purposes of a "check-list" to assist in the analysis of the content of programme delivery in individual programmes.

It is fully appreciated that the analysis so far carried out has a number of limitations and weaknesses: several important health programmes have not been included (respiratory tract infections and health of the elderly, to mention only a couple); the contributions from sectors outside health have not been exhaustively dealt with; and no attempt has yet been made to "merge" horizontally the eight elements at each level. To reiterate, the latter activity can only be meaningfully carried out in a concrete country programme situation with defined infrastructure, policies and priorities. The intention is, therefore, to use the feedback from the use of this document in countries to update the content and refine or modify its structure.

<sup>\*</sup>Primary Health Care: Report of the International Conference on Primary Health Care, Alma-Ata, USSR, September 1978. WHO, Geneva, 1978.

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#### PART II:

#### Glossary of terms

Matrices analysing the activities and tasks required within the eight essential elements of PHC:

- 1. Education concerning the prevailing health problems and methods of preventing and controlling them
- 2. Promotion of food supply and proper nutrition
- 3. Adequate supply of safe water and basic sanitation
- 4. Maternal and child health, including family planning
- 5. Immunization against the major infectious diseases
- 6. Prevention and control of locally endemic diseases

  Examples:
  - (a) Malaria
  - (b) Hypertension
- 7. Appropriate treatment of common diseases and injuries

  Examples:
  - (a) Diarrhoeal diseases
  - (b) Common accidents in the home
- 8. Provision of essential drugs

## PART I

#### EXPLANATORY TEXT CONCERNING THE WORK OF THE PRIMARY HEALTH CARE WORKING GROUP SET UP BY HPC

#### I. INTRODUCTION

- The purpose of this paper is to explain the way in which the Working Group set up by HPC interpreted its terms of reference, how it tried to implement them and the conceptual basis of its work. It would be recalled that at its 220th session, the HPC had recommended to the Director-General ". . . that an HPC Working Group be set up as soon as possible after discussion with Director SHS to examine how the essential elements of primary health care are and/or should be related . . .". The Director-General had commented as follows: "Please let the Working Group . . . deal with substance and not with theory so as to permit the group to identify options available to us and thereby to countries in building up their PHC system through pragmatic and progressive integration of at least the essential components specified in the Alma-Ata Declaration". These comments were taken to mean that as a first step a programmatic analysis of the essential elements of primary health care would enable WHO staff to comprehend the implications of health care delivery at this level of a comprehensive health system. Subsequently, through practical integration of the main tasks the difficulties and, therefore, the options for pragmatic technical cooperation at the country level would become more evident.
- 2. In this perspective, it was felt that the use of the matrix format would allow the identification of the main tasks involved in programme delivery at the various levels of a health system based on primary health care, the persons responsible and the skills required for the fulfilment of these tasks; and other modalities such as supplies and equipment, logistic support and community interaction. Put another way, the matrix format was used as a process of "thinking aloud" with the specialist personnel concerned with each programme element and guided, to the extent possible, by past country experiences (the 10 matrices that have been developed are annexed as Part II of the Working Group's report).
- 3. Therefore, in this first phase of bringing together a lot of what was already known, it was necessary to tackle each programme vertically this being an indispensable building block to a second phase involving the integration of activities. Indeed, working with the different programmes directly concerned with primary health care, there could hardly have been an alternative basic approach. The matrices should, therefore, be seen in the context of a "document of content" to facilitate integration and to permit cross-checking and updating of information concerning programme delivery at the country level.
- 4. After finalization of the matrices, it was felt appropriate to produce a three-page summary of each matrix in narrative form. These summaries complement the matrices insofar as they are intended to elucidate the conceptual framework underlying their preparation.

## PRIMARY HEALTH CARE

5. It is not the mission of this explanatory paper to discuss at any length the complexities of "planning and management" with regard to health care delivery at country level. This notwithstanding, it is necessary to touch on some important points the negligence of which tends to strangle genuine efforts at the creation of efficient and effective health care delivery systems.

### The meaning of primary health care

6. The Working Group used the definition of primary health care that was elaborated in the Alma-Ata Declaration. It saw the fundamental difference between primary health care and basic health services as the focus of the former on the "consumer" of health care delivery systems (therefore on his/her immediate needs and his/her active involvement) and on the multisectoral approach to health development - health benefiting from, as well as contributing to, overall socioeconomic development. In addition, primary health care is not seen as an entity in itself; but as an integral part of the comprehensive health system in any country (it being the first point of contact in most rural settings and urban slums) and being closely related to and supervised and supported by, higher levels of the system.

#### Planning and Management

- 7. The planning and management of health care delivery in any country is directed from the central level. This is as it should be, but there is always one fundamental shortcoming, and that is, the almost complete absence of decentralization with little focus on the peripheral services and the lack of involvement of members of the communities to be served and of non-health sectors with direct relationship to national health development. Who has recently developed a process entitled the "Managerial Process for National Health Development" (MPNHD) for use in countries particularly preoccupied with the implementation of their policies and strategies for primary health care. WHO has a duty to help train national personnel in the practical application of the process at all levels of the comprehensive health system for the process is not only a national responsibility but also has to be applied with a great degree of flexibility. Once the work of integration has been finalized, the matrices can contribute to what should be a learning-by-doing process.
- 8. It is not intended to go into the catalogue of problems that will be encountered in countries in the practical implementation of programmes concerned with primary health care. Mention should however be made of the spectrum of difficulties that was taken into consideration during the preparation of the matrices. It includes: lack of appropriate political commitment and clear policy formulation, inadequate problem definition (unavailability or improper use of data) and selection of priorities in the face of limited resources (human, financial and material), lack of identification of resources (internal and external), non-definition of realistic indicators of progress, lack of target setting and of channels/mechanisms for constructive dialogue with the communities and the absence of continuing evaluation of these mechanisms and of the effectiveness Some of these constraints will be dealt with of programme activities. succinctly.

- 9. Political commitment is all too often taken to mean the commitment of the Head of State, or of the topmost executive authority within a country. This commitment is, of course necessary; but of much greater importance is the commitment of the masses themselves that is necessary to galvanize them into action, for without this, primary health care then becomes an empty slogan. This is the real litmus test of commitment at the country level and it is because of this that an awful lot of work still needs to be done in different settings to understand the inner dynamics of community involvement.
- 10. As regards resources of all kinds, it must be realized that for some time to come there will always be a shortage. In this connexion, mention must be made of the "re-allocation of resources" that has been talked about over and over again. In certain settings, re-allocation of resources is an urgent need; in others, and indeed the majority, it has to be admitted that it is just simply impossible as the centre itself is already stripped to bare bones, and any form of re-allocation is an impossibility and therefore a myth. However, it should be possible to allocate any additional resources (largely external) to primary health care.
- It is difficult to discuss the problem of resources for primary health care without making a passing reference to capital and recurrent costs. a large number of countries, a significant proportion of the capital costs On the other hand, if primary will have to come from external sources. health care is to be a going concern in any country, in the long run the recurrent expenditure must be generated from within the country itself. realization and acceptance of this fact from the very outset is of crucial From it stems the need, indeed the imperative that leaves no option but to think of the utilization of available human resources (community health workers and traditional birth attendants) that can be paid for in cash or kind by the communities themselves; of technologies that are socially and culturally acceptable, of low cost and of high relevance technically; of appropriate communication systems that can cut down on the needless dissipation of human effort and the wear and tear of limited transportation; and the definition of national drug policies including appropriate storage and distribution systems.
- Thinking exclusively of the different levels of primary health care, 12. there are other important subjects that should be addressed and that call for These include training and constant vigilance if success is to be achieved. re-training of personnel by higher echelons in the comprehensive health system, continuing supervision and support, provision of appropriate supplies and equipment, and last, but by no means least, provision of the necessary logistic support. By way of example, such "mundane" subjects as the human interaction between a professional and a traditional birth attendant, the redesignation of tasks for health and other personnel, the regular controls necessary to ensure that vital supplies are always available, and the organization of vehicle maintenance to ensure their constant road-worthiness, often make for the success or otherwise of health programme delivery. short, if a health system based on primary health care is to function properly, there should not be an over-concentration on what can be called the sophisticated aspects of health care to the total exclusion of these fringe, but very important, prerequisites for success.
- 13. These and other problems closely related to them should be the constant preoccupation of health systems or operations research in countries. The Working Group was unanimous in the conviction that unless solutions to such problems were urgently sought (and with the awareness that they will vary from country to country) the inevitable consequence would be that activities

concerned with primary health care would get bogged-down or stay or move from one pilot area to yet another. WHO's experiences with pilot areas in the past are replete with examples of such problems.

## ROLE OF THE INDIVIDUAL/FAMILY IN PRIMARY HEALTH CARE

- 14. If Health for All is to become a reality, there is a need to shock each individual into an awareness of the fact that the prime responsibility for his/her health belongs to him/her and no-one else. If it is true that in the constitution of every nation the government authorities are implicitly responsible for the health of the population as a whole, it is also true that this in no way negates the importance of the role to be played by the individual or by the family as a collectivity. The Working Group also discussed the activities of what are currently called "self-care groups" which are on the increase not only in Europe and North America but in other parts of the world albeit in other forms. It is not the intention to dwell on the arguments for and against especially those advanced by members of the medical "establishment". Suffice it only to say that their growing importance must be recognized and that, in this connexion, each matrix specifies tasks to be carried out at the home level for "health begins at home".
- 15. In the matrix for PHC Element No. 1 Education concerning prevailing health problems and the methods of preventing and controlling them considerable attention has been paid to the role of health promotion at the home level. In addition, in all the matrices, indications are provided of the promotional, preventive or curative aspects of health care that form part of the role of the individual or of the family. At first glance, it will appear that the individual is being called upon to submerge himself/herself in the problems of health care to the exclusion of the myriad of other problems that form part of normal daily life. This apparent paradox can only be ironed out in the second phase of horizontalization or integration of the tasks involved in the implementation of the essential elements of primary health care.

## IV. ROLE OF THE COMMUNITY IN PRIMARY HEALTH CARE

- As has been mentioned earlier in this paper, one of the key differentiating factors of the primary health care approach is its focus on the "consumers" of health care delivery systems: their problems, immediate needs, biases, aspirations, etc. This being so, the involvement and active support of the community are of crucial importance if primary health care is to succeed anywhere. The political commitment of the masses has already been touched upon; it has to be enlisted by education/information coupled with practical demonstration in a language which they can understand and with a cultural bias with which they are familiar. This political commitment can be enhanced by the involvement of some representatives of the communities in the planning of their primary health care system. In short, what the Working Group advocates is the complete involvement of the community in the planning, programming, implementation, monitoring and evaluation of the health system. This "bottom-up" approach cannot be minimized as it constitutes the key to success.
- 17. It is for this reason that in all the matrices areas for community support and interaction have been identified and given the place of importance they deserve. In order to advance the notion of the multisectoral approach to national health development, the creation of Community Development Committees has been advocated as against Village Health Committees. These

committees will gain in size and importance in the progression from the lower echelons upwards; but the point of importance is that there must be a dynamic interplay between these committees and the different administrative levels of government. It is one of the responsibilities of these communities to choose from among their own people persons of proven integrity to be trained as community health workers (CHWs) and traditional birth attendants (TBAs) including the organization of functional literacy classes. These committees will also have to decide on ways of remunerating this category of workers either in cash or kind, on their method of work, on ways of replenishing drug supplies initially supplied by the government, etc.

18. Community support is also necessary for the dissemination of relevant information concerning primary health care and the much needed interaction between health and other sectors. To cite but a few examples, the creation of "cooperatives" will go a long way to improve the production of cash and subsistence crops and therefore the nutritional status of the community; and the use of locally available media for transmitting information concerning an immunization campaign will have positive repercussions on the immunization coverage. In addition, the community can generate from within the necessary human and material resources for the construction of recreational facilities for health promotion.

# V. ROLE OF THE MINISTRY OF HEALTH AND OF THE HEALTH SYSTEM INFRASTRUCTURE IN PRIMARY HEALTH CARE

- There is a growing dissatisfaction with the conventional health care patterns as they have developed over the last few decades. All over the world, there are strong reactions against the over-reliance on advanced technologies, the abuse of drugs and of diagnostic and surgical procedures such features lead to a dehumanization of health care and the appearance of new health hazards generated by a system supposed to protect people. developing countries, little or no progress has been made in terms of coverage of health care. With the exception of a few countries, almost everywhere the major emphasis, in terms of expenditure for health, is placed on the care of the very sick, whereas the care of the healthy or less obviously sick has made far less progress. Such trends are being agressively supported and promoted by vested commercial interests. Thus, the health care systems of practically all countries have little relevance to actual needs. As they have grown and consolidated over the years, the systems of affluent countries have become less flexible and less open to change, while in the developing countries a reorientation can be easier provided it starts forthwith.
- Hardly anyone will question the statement that no viable society can any longer afford to limit the maintenance of health to the care of the sick. Only the societal and administrative structures whereby health is to be managed are subject to legitimate ideological variations; but whatever health system is chosen, the aim must be to make it a system for the whole man, not merely for the sick man. Maintaining health means the containment of all known major threats to public health (environmental, psychological and biological) by means of known technologies and the promotion of healthy life-styles among all; enabling all those who are in good health to remain and providing relief to those who are in ill-health. This approach requires a complete redefinition of the types and numbers of health workers needed and a shrewd appraisal of their training curricula and work schedules, including those of medical doctors. The technologies to be used must also be scrutinized so as to ensure that the simplest appropriate technology is applied to each case.

21. The expose in paragraphs 19 and 20 epitomizes the new role of the Ministry of Health and the comprehensive health system embracing primary health care that it decides to establish. Traditionally, Ministries of Health have little political leverage and do not receive an important share of the national budget. But this very fact imposes a supreme responsibility to define objectives and priorities clearly, to select health care technologies judiciously, to maximize the use of essential drugs whose selection is the result of well-defined national drug policies, to mobilize community support and, once obtained, to ensure its involvement in all aspects of health care delivery and to inculcate sound principles of "management" that are so essential for success.

### Health Systems Infrastructure

- 22. For countrywide health systems based on primary health care to function optimally in the delivery of health programmes to all sections of the population, the following points require serious consideration and constant vigilance: the appropriateness of the existing health infrastructure, the correct mix of different categories of health manpower needed at each level of the health system, the technical content of programmes, the appropriateness of the existing technology, support and management. Yet, in this age of technological advance, there is frequently a preoccupation with the sophistication of technologies to the detriment of establishing appropriate health systems infrastructure. The latter is just as important, if not more so, for the adequacy of the health infrastructure is a determinant factor in ensuring that health technologies are used with maximal cost-effectiveness.
- 23. There is no universal blueprint of a health system infrastructure. Each country must decide on the system that can best cater for its needs guided by the pecularities of its political, administrative and cultural setting. This apart, there are however certain key factors to be borne in mind in order to ensure that actions taken at different levels are coherent and mutually supportive:
  - (a) geographical and demographic characteristics of the various parts of the country;
  - (b) quantity and quality of the available manpower;
  - (c) definition of the function, scope and degree of sophistication of work to be undertaken at different levels;
  - (d) definition of the lines of demarcation within the health infrastructure of the different levels of care primary, secondary and tertiary remembering that primary health care must remain the hub of the health system infrastructure;
  - (e) siting of the first referral level or hospital in primary health care must bein a strategic location in view of its important coordinating, training and supervisory functions
- 24. In the matrices that have been formulated, the delivery of primary health care has been shared between four main levels which are more fully described in a separate paper. With the exclusion of the home and communal levels, the other two levels mean different things in different settings, e.g. the first health facility can mean a dispensary, health centre or even the consultation room of a general medical practitioner.

## VI. SUPPORT NEEDED AT VARIOUS LEVELS OF PRIMARY HEALTH CARE

- 25. The importance of the support provided by the higher levels of the comprehensive health system for the different levels of primary health care needs no emphasis. This support embraces planning of health care delivery in its multiple dimensions, the definition of appropriate curricula for the training and in-service training of all categories of health personnel using modern educational methodology, the establishment of a carefully planned schedule for the provision of supplies and equipment and the provision and maintenance of the right type of logistic support.
- 26. The constant support and supervision required at the different levels of primary health care should not be lost sight of. Throughout the elaboration of the matrices the Working Group kept this fact in the fore-front and indications of what this support means in practical terms have been incorporated in the matrices. For the sake of reiteration, guidance, support and supervision from the first referral level to the first level health facility and from the latter to the communal and home levels include the right type of human interaction between professional and lay or traditional health personnel; provision of appropriate mechanisms for the acquisition of correct skills and knowledge for the accomplishment of prescribed tasks; constant guidance and supervision by the next higher level to ensure that the tasks are properly executed; regular distribution of the right type of supplies and equipment and organization on a strict basis of a system of maintenance on the spot of vehicles and equipment of all kinds.
- 27. A passing comment has been made of the importance of health systems research. This should be a built-in component of a comprehensive health system based on primary health care system. Experience has shown that operations research is not often attractive to the best researchers, few as they are; therefore, as for evaluation, simple mechanisms must be designed to allow those working on the job to collect the right type of information for objective and critical analysis.

# VII. THE RELATIONSHIP BETWEEN PRIMARY HEALTH CARE AND OTHER SECTORAL PROGRAMMES

- 28. There is hardly any need to belabour a point which has practically received universal acceptance and, that is, that national health development is not the prerogative of the health sector alone. Other sectors such as agriculture, education, water resources, social welfare, communications, etc., contribute equally, if not more, to the improvement of the health status of populations. This is the multisectoral concept implicit in the primary health care approach and which calls for a continuing dialogue between the health sector and other national sectoral programmes.
- 29. Literacy programmes of all types (e.g. adult literacy, functional literacy for "lay" health personnel) can contribute in no small way to the success of primary health care. Health legislation is another important aspect, but the proliferation of legislation for its own sake can be counter-productive unless effective mechanisms (reflecting cultural variations) for its enforcement have been previously identified. The improvement of the health status of agricultural, industrial and migrant workers calls for special approaches involving control of occupational health risks, promotion of the humanization of work and a well coordinated programme of research. Here again, the need for continuing dialogue with industry, the Ministries of Labour and Health needs no emphasis.

#### VIII. POSSIBLE USE OF THE MATERIAL PRODUCED

- 30. The burning question that has troubled many minds is to what use should the material that has been formulated by the Working Group be put? As has been clearly indicated in the introduction, the first important use is to help us in WHO understand the complexities of programme delivery at the country Tevel in our respective programme areas. This awareness should, in itself, facilitate the indispensable interaction between all programmes directly or indirectly related to primary health care. The very expression "primary health care" conjures up in our minds different things for different people; and yet there needs to be a unified concept if our motivation, approaches and practical identification with country activities are to be intensified.
- 31. Next comes the question as to what use can best be made of the material at the country level. It can be used for cross-checking purposes for individual programmes; but more importantly, it can become a useful tool at the country level only after the process of horizontalization or integration of programme activities has been undertaken and this, most ideally, in countries.

#### Definitions of various levels of primary health care

1. These definitions are to be seen as working definitions for the purpose of analysing and describing the resources needed at the primary health care and supporting levels in order to carry out the activities making up the minimum eight elements of PHC. Emphasis is placed on the situation of a developing country with a low GNP, predominantly agricultural economy, with about 80% of the population living in rural areas and urban slums, high birth rates and infant and maternal mortality rates, and the following main health and health-related problems: malnutrition, infectious diseases, infant diarrhoea, malaria and other vector-borne diseases, complications of pregnancy and labour.

The details of what is available at the different levels will vary greatly between countries, but the definitions given hereunder, with the attached graphical illustrations of the levels (Figure 1) indicate what needs to be there, or developed, in order to effectively implement a primary health care strategy.

In order to develop a viable PHC strategy before the year 2000, it is not enough that the infrastructure, as described above, be set up. The essential prerequisite is a thorough commitment to the strategy, not only by the Government but even more so by the local community and by the supporting health personnel. This in turn requires that efficient and effective mechanisms be set up, or strengthened, for a continuous dialogue between the different levels, other national sectoral programmes, and the communities.

- 2. Definitions/descriptions of the levels (refer also to Figure 1).
  - hold. The family members are the ones primarily responsible for activities at this level, whether they are seen as individuals, mothers of children or heads of the household. Persons from the neighbourhood, as well as home-visiting community workers of various kinds (including trained health workers) interact with the family and are directly involved in activities at this level.
  - Communal level: Activities at this level concern the health of a whole community (village/town or group of villages) and require common facilities and/or joint voluntary efforts of community members. Examples are cleaning campaigns, construction of facilities, information/education about immunization sessions, etc.

The Community Development Committee, or equivalent (see Figure 1) is the central coordinating mechanism for activities at this level, but it also provides support to activities at the other levels, in particular the home level (see the individual matrices — column for "community support"). The Community Development Committee interacts with, and is supported by, the individual community members, in addition to various community groups, as well as national sectoral programmes including health.

Community health workers (CHWs), 1 as well as other community workers and volunteers, function also at this level both in promotional/informational activities and in planning/implementation of communal health activities. Many communities have created an actual facility for the CHW at this level.

First health facility level: This refers to the first level where a trained health professional is available and where facilities are available for running clinic sessions. The kind of facility and the type of staff available will vary from country to country (see Figure 2).

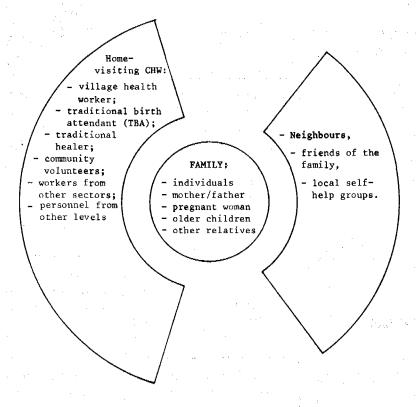
In addition to the static clinical activities, the staff interact both with the home level (during home visits) and the communal level. This level also fills a major supportive role in training and supervision of all kinds of CHWs.

First referral level: There are two types of referral systems in a PHC strategy (Figure 2). The first is a clinical referral system which includes the supervision of performances at lower levels. The second is an administrative referral system - usually the District Health Office. This is the level involved in planning, management and support of activities related to sanitation, health education/information, disease control campaigns, etc.

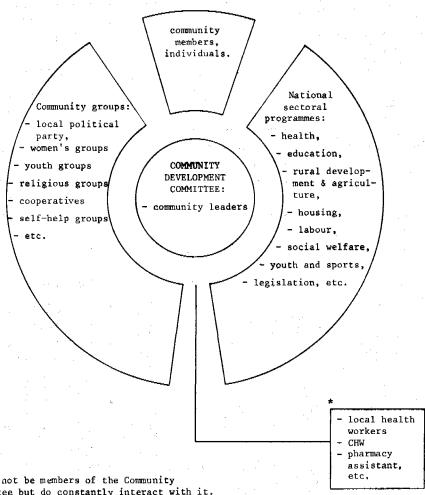
<sup>1</sup> For the purposes of this paper a CHW is defined as a person selected by the Community for a course of training of varying duration organized by the national health authorities. It includes traditional healers of all kinds, particularly traditional birth attendants (TBAs) and village health workers (VHWs).

PERSONS, GROUPS, CATEGORIES OF PERSONNEL INVOLVED IN PHC AT HOME AND COMMUNAL LEVELS AND SUPPORTING PROGRAMMES

HOME:



COMMUNAL:



<sup>\*</sup>These workers need not be members of the Community Development Committee but do constantly interact with it.

#### Figure 2

#### PHC HEALTH SERVICE INFRASTRUCTURE

## FIRST LEVEL HEALTH FACILITY:

- "health house" or similar,
- dispensary,
- health centre with or without beds.
- nurse and/or
- nurse/midwife
- assistant nurse
   or other auxilliary
   staff, incl. CHW

#### Sometimes:

- medical assistant or physician
- sanitary inspector
- dietician
- pharmacy assistant
- laboratory assistant

## FIRST REFERRAL LEVEL:

#### Clinical:

- rural hospital,
- district hospital, etc.
- physician (G.P.)
- nurse
- midwife
- hospital aide
- laboratory technician
- X-ray technician

## Administrative:

District (or province) health office

#### Sometimes:

- pharmacist
- medical assistant
- public health medical officer
- public health nurse/ supervisor
- sanitarian
- nutritionist/dietician
- storekeeper

#### Sometimes:

- health education assistant
- laboratory technician
- water agency technician
- statistical assistant.

## PHC ELEMENT No. 1: EDUCATION CONCERNING PREVAILING HEALTH PROBLEMS AND METHODS OF PREVENTING AND CONTROLLING THEM

#### - Narrative Summary -

#### INTRODUCTION (General Objectives)

Education for the promotion of health and the prevention of disease is the first of the eight essential elements of primary health care mentioned in the Alma-Ata Declaration. This emphasizes the fact that in the final analysis it is the individual who will decide to be healthy or not, to accept health measures, to work with others in creating a healthy environment and to work for the promotion of health for himself/herself or the community in which he/she resides. This should not, however, be construed as meaning that the individual is the sole person responsible for his own health. There are a number of issues outside the control of the individual that govern his own health: socioeconomic conditions, political issues, cultural trends and norms, religious beliefs, etc. It is within this framework that health education and information must work in order to be successful.

Information and education, therefore, must foster activities leading to a situation where people: want to be healthy; know how to attain health; do what they can individually and collectively to seek help when needed.

#### CONTENT AT DIFFERENT LEVELS OF CARE

The health of the individual, family and of the community depends on a number of factors including the environment and lifestyle. It will be futile to try to maintain health and promote healthy living without changes or modifications in the environment and in unhealthy habits and life-styles of individuals. In addition, outside forces may also influence the individual and the community to change some of the more healthy lifestyles in order to replace them with what seems to be acceptable in other cultures. It is evident, therefore, that information and education must not only deal with those trends that need to be changed but also with the maintenance of others that seem to be appropriate.

Specific tasks and ways of providing for their attainment are outlined in the matrix. The activities are sub-divided into three interdependent areas of involvement: health promotion, prevention of disease and maintenance of health and education to deal with disease. Some of the types of action required at different levels are detailed hereunder:

#### Home level:

The family is the basic unit of self-reliance in health and the prime focus for most information and education activities. Specific tasks include:

- acquisition of basic knowledge in order that the individual will come to value health and know how to maintain it;
- acquisition of an understanding of local health hazards and how to avoid them;
- recognition of health variants and of disease and acquisition of the ability to take proper self-care decisions or to seek help.

#### Communal level:

Without adequate communal support, health will be difficult to attain or maintain. Collective action is required to create the socioeconomic and environmental conditions within which individuals will be motivated to take their health into their own hands to the greatest extent possible. This includes:

- easy access to sound and useful information on prevailing health problems and methods of preventing and controlling them;
- a clear understanding of the technologies and services available and their advantages and disadvantages;
- positive health information through the mass media, including the avoidance of its use to promote the utilization of products which may be detrimental to health or creating an undue dependance on non-essential medicaments and practices.

## Health services (including first health facility and first referral level):

The health services have a responsibility for encouraging and facilitating family self-reliance and the involvement of the community in the planning and implementation of health care systems. Unless this is understood, people will continue to be "recipients" of health care, i.e. passive observers rather than taking the responsibility for their health into their own hands. Specific tasks include:

- counselling of patients including promotion of healthy behaviour;
- provision of sound health information;
- organization of formal health education activities;
- fostering interdisciplinary approaches to support the family and individual;
- close cooperation with the mass media to foster positive health information.

#### INDICATORS OF PROGRAMME EFFECTIVENESS

Realizing the fact that the effectiveness of information and education programmes should eventually be manifested by the attainment of a better level of health in the population, their evaluation becomes a very complex process. For, indeed, the attainment of a better level of health in any population is dependent on a number of factors of which information and education of the individual and of the communities constitute just one element. Recourse would therefore have to be had to the use of interim evaluation, that is, to compare the output (knowledge or participation) as against the input (provision of information and encouragement and organization for action). In that case information and education programmes might have to use the following as indicators:

- increased knowledge of the importance of proper nutrition, common health hazards and how to avoid them;
- increased competence in dealing with disease or accidents;

- reduction of those diseases or conditions in which the role of the individual is of primordial importance, such as, reduction of infant morbidity and mortality due to diseases preventable by personal hygiene, reduction of home accidents, etc.;
- sustained participation in individual or group recreational activities;
- increased utilization of health facilities;
- increased coverage of health topics in the mass media and the use of advertising practices which foster healthy living.

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#### PHC ELEMENT No. 2: PROMOTION OF FOOD SUPPLY AND PROPER NUTRITION

#### - Narrative Summary -

#### INTRODUCTION (General Objectives)

Nutrition is one of the most important factors influencing the quality of human life in most parts of the world. While over-nutrition is sometimes a problem, undernutrition is, and will likely remain, one of the main contributing causes to the very high rates of infant and young child deaths; and in those who survive it retards growth and development and lowers resistance to infections or environmental hazards. It is estimated that around 200 million children under the age of five years are moderately or Maternal malnutrition is widespread, being especially severely malnourished. important because of its serious implications for the health of the women and Subclinical malnutrition in adults reduces their work their infants. capacity interfering therefore with socioeconomic development. determinants of food supply and nutritional patterns at the national level are primarily socioeconomic factors which are beyond the responsibilities and capabilities of the Community Health Worker (CHW). This worker, however, can collaborate in promotion of the necessary intersectoral coordination at the She/he can also, within the existing situation, undertake direct actions at the family level to improve dietary practices of the most vulnerable family members and undertake some specific measures addressed to the control of nutritional diseases.

The objectives of the nutrition component of primary health care include: promotion of activities that can improve food supply at the family level; correction of faulty feeding practices in infants and young children (0-3 years of age); treatment and rehabilitation of malnourished children; treatment and prevention of prevalent nutritional diseases such as anaemias and vitamin A deficiency; and promotion of better nutrition for pregnant and lactating women.

For programme success it is mandatory that these activities should be accompanied by simultaneous actions directed towards other non-dietary factors contributing to malnutrition, such as diarrhoeal and other infectious diseases.

#### CONTENT AT DIFFERENT LEVELS OF CARE

#### Home Level:

This is the most important level where actions are needed for the improvement of nutrition. The activities to be promoted by the CHW and carried out by the family members include:

- efficient utilization of available resources to increase and improve food supply;
- maintenance of breast-feeding and timely and adequate introduction of complementary foods (weaning) from the family diet;
- improvement of food processing, preservation and utilization through use of appropriate technology;
- proper intrafamilial distribution of available food;
- early detection and proper care of malnutrition.

#### Communal Level:

The area of nutrition provides a typical example of the need for the CHW and local health authorities to be concerned and to try to influence communal activities which are not traditionally within the health sector, but are fundamental determinants of health. At this level the CHW and community leaders should be concerned with:

- assessing the overall situation of food and nutrition in the community;
- stimulating and cooperating in activities to improve food production, storage and marketing, including home gardening, the use of irrigation for food crops, the establishment of cooperatives, communal facilities for food storage and processing;
- activating communal organizations for health and nutrition education;
- stimulating and facilitating cooperation among community members, such as self-help for day care of children by the women in the community.

### Health Services (first level health facilities and first referral level):

#### The health services will be responsible for:

- technical and logistic support to facilitate work at the home and communal level, including training and supervision of CHWs, provision of growth charts, scales, educational materials, food supplements, etc., as required;
- identification and canalization of external resources to the communities, such as agricultural extension services, credit sources, supportive technological facilities;
- organization of an adequate referral system for the care of severely malnourished subjects.

#### INDICATORS OF PROGRAMME EFFECTIVENESS

A few examples of indicators relevant to the nutrition component of primary health care are:

- proportion of communities benefiting from cooperatives or other organizations/activities aimed at improving food supply;
- percentage of children under five years of age whose growth is monitored with a growth chart;
- percentage of malnourished children (grade 2 and 3) receiving adequate attention;
- percentage of children under five years of age who are malnourished;
- reduction in prevalence of specific nutritional diseases such as protein-energy malnutrition, anaemia or xerophthalmia, in the total population.

#### PHC ELEMENT No. 3: ADEQUATE SUPPLY OF SAFE WATER AND BASIC SANITATION

#### - Narrative Summary -

#### INTRODUCTION (General Objectives):

Preventable diseases linked with drinking water and lack of sanitation are major health problems in developing countries. They are among the major contributors to high infant mortality and poor quality of life. Safe, adequate and accessible supplies of water together with proper sanitation are, therefore, amongst the foremost basic health measures and essential component of primary health care. Improvement of this component is a must in most rural areas and also in urban slums.

The main objectives of this PHC element are to prevent such diseases and improve the quality of life and well-being of populations by promoting personal and community hygiene, ensuring availability of safe water supply and sanitation facilities through self-reliant community action and also by associating water supply and sanitation with other health and/or development programmes.

#### CONTENT AT DIFFERENT LEVELS OF CARE:

The principal function of this PHC element is the provision and utilization of sanitary measures in communities. It involves five major activities: (i) promotion of personal and community hygiene; (ii) provision of safe drinking water supply; (iii) provision of excreta disposal; (iv) protection of water sources and surveillance of drinking water quality; and (v) linkage with other related sectors.

Obviously, if this element of PHC is to bring about the desired results on health development, it must not only depend on the physical part of the programme but also on the utilization of the facilities resulting from proper understanding and appreciation by individuals and the community as a whole. While the target groups include all members of the community, the emphasis will need to be placed on school children with support from community leaders. Thus, manpower for these activities has to be mobilized at all levels, i.e. from government officials concerned (health, water and community development workers, teachers) down to community leaders, volunteers and individuals.

#### Home level:

The home may be considered the primary base where change and improvement in health and hygiene habits must be encouraged and enforced. This can be accomplished by:

- making the household members aware of the relationship between unhygienic practices and ill-health;
- introducing sound practices of personal hygiene;
- promoting the use of latrines or similar sanitary facilities;
- ensuring that potable water is used for drinking and other domestic purposes.

#### Communal level:

Next to the household level the community has a lot to contribute and constitutes a good entry point for the development and implementation of health and environmental sanitation measures. Community groups such as schools and village committees can be used to disseminate information about and promote the use of safe water, adequate sanitation and hygiene habits as well as to implement schemes through communal and self-help efforts. Activities that can be considered will include:

- demonstration of community sanitary facilities and usage at school or community centres;
- community involvement in planning, construction, operation and maintenance of systems as well as their financing;
- participation in arranging village "cleaning" campaigns.

## Health services (including first health facility and first referral level):

Personnel from this level have a number of important responsibilities in relation to both the home and the communal level, such as:

- undertaking home visits to provide guidance to families on personal hygiene practices and encourage them to use existing sanitary facilities;
- promotion of family contributions to community activities listed above, as well as appropriate upgrading of their own sanitary facilities;
- carrying out demonstrations and campaigns related to environmental health;
- promotion of community involvement in activities for communal water supplies and sanitation facilities, and the establishment of a local mechanism for operation, maintenance and continuous financing of such a programme;
- organizing "clean-up" campaigns of household premises and compounds;
- training of local workers and health volunteers.

#### INDICATORS OF PROGRAMME EFFECTIVENESS:

Specific indicators that can be used for monitoring the primary health care element of safe water and basic sanitation in a country could include:

- percentage of households, by geographical area,\* having ready access to safe water;
- percentage of households, by geographical area, having ready access to safe excreta disposal systems;
- percentage of workers and health volunteers trained for promotional work with families and communities as compared to stated targets;,

<sup>\* &</sup>quot;geographical area" refers not only to rural/urban areas, but also to areas with particular geographical/climatic characterístics, e.g. mountain versus coastal regions.

- percentage of communities, by geographical area, served with safe water and systems for waste and excreta disposal;
- percentage of communities, by geographical area, having communal water and sanitation programmes based on self-help;
- percentage of communities having arranged and carried out "clean-up" campaigns;
- percentage of different categories of personnel trained for construction, operation and maintenance of water and sanitation systems as compared to stated targets.

#### PHC ELEMENT No. 4: MATERNAL AND CHILD HEALTH, INCLUDING FAMILY PLANNING

#### - Narrative Summary -

#### INTRODUCTION (General Objectives)

Maternal and child health care (MCH/FP) as part of PHC aims at promoting and protecting the health of children and women of childbearing age, so that all children have the possibility for healthy growth and development and so that the reproductive life of women is compatible with a state of health and wellbeing. It is a vital part of national strategies for PHC; it concerns some 60-70% of the population in all developing countries; it deals with health problems of great magnitude; and it is basic to the achievement of a healthy population in the future. To enable the programme to be effective, MCH/FP must include substantial components of all the other PHC elements.

#### CONTENT AT DIFFERENT LEVELS OF CARE

MCH/FP care includes at least four main functions: antenatal care, delivery care, child care and family planning care. In a PHC context, activities related to these functions involve not only health personnel, but groups of people in the individual home, and the neighbourhood as well as in the community. At each of these levels a number of tasks have to be carried out in order to achieve the above objectives and for this support is required in terms of, for instance, appropriate information, appropriate technologies, equipment and supplies, improved communication, supervision and technical support, protective legislation, etc. The need to expand the intersectoral support and coordination in this area cannot be overemphasized.

A detailed description of the relevant tasks and the support required to carry them out is given in the matrix for PHC ELEMENT No. 4. Listed hereunder are examples of types of decisions and actions relevant to MCH/FP at different levels of care.

#### Home level:

This is where a number of primary decisions and actions take place, without which the rest of the programme will not benefit the women and children:

- obtaining and utilizing adequate and sufficient food;
- recognition of advantages of preventive measures, such as immunization and family planning; and of the need to maintain healthy behaviour and practices;
- recognition of the need for curative care, e.g. for infant diarrhoea;
- actions for self-help, like first aid for child accidents, building latrines, etc.;
- decision to contact and/or utilize health services, e.g. attending a clinic for antenatal care;
- carrying out actions as advised, e.g. taking medications as prescribed;
- participation in communal actions for health, such as malaria spraying, cleaning campaigns, etc.

#### Communal level:

The community has a number of ways of giving support to the home level as well as to the health programme itself, particularly through its various bodies and groups. In addition, there is a number of tasks related to MCH/FP that can, or should, take place as communal actions, initiated by the Community Development Committees or similar bodies and involving community groups as well as volunteering or selected community members. Some examples are:

- selection of community members for training as CHW or trained TBA;
- plan and conduct campaigns, e.g. health education campaigns in schools, mosques, etc., campaigns for cleaning up of garbage, etc.;
- cooperative activities like organizing day care activities for working mothers and for mothers who have to be hospitalized; or production of weaning foods;
- improvement of public transport systems and cooperation in arranging a system for emergency transport of pregnant women or sick children.

Health services (including first health facility and first referral level):

The health personnel carry out very important supportive activities and tasks within all the above functions, that can be grouped under the following categories:

- home visiting for promotive and preventive MCH care;
- provision of integrated clinical services for mothers with children and for other women in reproductive asges (preventive and curative, including nutrition);
- participation in community activities:
- education/information activities;
- training and supervision of MCH/FP tasks for health workers and different types of community workers under them;
- recording and reporting health problems and service data related to mothers and children, and participating in interpreting and utilizing these data.

The detailed content of the above-mentioned matrix will of course have to be modified in each individual country setting, depending on the priorities decided upon in relation to MCH/FP and the resouraces available. It represents, however, the type of programme which WHO considers ultimately has to be made available in order to achieve health for all mothers and children, and this can to a large extent now be achieved within the setting of developing countries by a reallocation of present resources to the extent possible.

#### INDICATORS OF PROGRAMME EFFECTIVENESS

The choice of indicators for monitoring and evaluation of programmes, again, will vary with the setting and the priorities, but the following are some suggestions for the type of indicators to be used for assessing the MCH/FP component of PHC:

- percentage of pregnant women receiving antenatal care at least once during pregnancy;
- percentage of pregnant women having heard of the importance of preventing malaria and means and ways of doing it;
- percentage of deliveries attended by trained staff including TBAs;
- percentage of children under one year having been weighed at least twice;
- percentage of couples currently using a family planning method;
- percentage of babies with a birthweight below 2500g;
- where feasible, birthweight-specific perinatal mortality;
- percentage of CHWs and TBAs having received a supervisory visit by a nurse/midwife within the last month;
- percentage of communities having a Community Development Committee or similar body with a clear understanding of and policy regarding MCH/FP.

#### PHC ELEMENT No. 5: IMMUNIZATION AGAINST THE MAJOR INFECTIOUS DISEASES

#### - Narrative Summary -

#### INTRODUCTION (General Objectives)

Immunization programmes seek to reduce morbidity and mortality by providing immunizations against the major killers of children. In the developing world, priority is usually given to the following six: diphtheria, whooping cough, tetanus, measles, poliomyelitis and tuberculosis. Some countries may have selected other priorities among the vaccine-preventable diseases.

At present only some 10% of the 85 million children\* born annually in developing countries are being immunized and each year these diseases are estimated to kill some five million children and to disable five million more with paralysis, blindness, deafness or mental retardation.

The goal is to provide immunizations for all children of the world with special priority given to those in developing countries. This is neither a question of a single mass campaign nor of a series of mass campaigns: permanent immunization delivery systems must be established which can reach a high proportion of children during their first year of life as they continue to be born into the population. In addition, such systems must be able to ensure that pregnant women have received adequate tetanus immunizations to protect them during delivery and to protect the newborns until the umbilical cord has healed.

#### CONTENT AT DIFFERENT LEVELS OF CARE

Immunization services can be provided more economically if they are integrated into other health care delivery services. Therefore, a basic programme strategy is to promote an expanded programme of immunization in consonance with other health care delivery services within the health system based on primary health care, particularly maternal and child health services.

Activities related to immunizations involve individual family members, members of the community, and health personnel at first health facility and the first referral level. A detailed description of the tasks at different levels is given hereunder:

#### Home level:

The woman with her child constitutes the focal point of the programme. It is at the home level that she must take decisions about the health services and their use:

- to participate in educational activities or information gatherings at the community level;
- to recognize the need to immunize her child and herself;
- to recognize the need for cleanliness during home delivery to prevent neo-natal tetanus;
- to be willing to cooperate and communicate with health personnel.

<sup>\*</sup> Excluding China.

#### Communal level:

It is of utmost importance to involve members of the community to:

- participate in the planning of the programme, e.g. immunization session schedules, time and place to conduct immunization sessions, etc.;
- participate actively in immunization sessions;
- participate in planning and conducting educational programmes in schools, churches, mosques, etc.;
- arrange pre-campaign meetings to inform community teachers, politicians, etc., about the programme;
- improve public transport systems.

### First health facility level:

The health personnel in the first health facility will carry out MCH activities including immunizations. The tasks can be grouped under the following categories:

- motivation/education of individuals and groups;
- administration and maintenance of vaccine and equipment;
- participation in planning and evaluation of the programme;
- communication and cooperation with District Health Office staff and participation in health activities at the community level;
- provision of training, supervision and guidance for different categories of staff;
- recording, reporting and participation in the interpretation and utilization of these data.

## First referral level (District Health Office):

- Production and provision of training aids;
- provision of information/education concerning the programme to the public;
- programme planning and allocation of resources;
- execution of coverage evaluation, surveys and disease surveillance;
- provision of support to health service personnel in training and supervisory activities.

## INDICATORS OF PROGRAMME EFFECTIVENESS

The following are some indicators for monitoring and evaluating immunization programmes:

- percentage of pregnant women and mothers of children below one year of age who are aware that the target diseases can be prevented by immunization;
- percentage of children below one year of age and of pregnant women who are immunized;
- proportion of vaccine doses administered that have adequate potency;
- proportion of planned techniques and procedures that are executed;
- reduction in morbidity and mortality for the target diseases.

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#### PHC ELEMENT No. 6: PREVENTION AND CONTROL OF LOCALLY ENDEMIC DISEASES

#### (a) Malaria

#### - Narrative Summary -

## INTRODUCTION (General Objectives)

Malaria remains one of the most important widespread endemic diseases; there are about 120-150 million cases annually; and the disease hampers the socioeconomic development of many countries. The malaria control strategy, objectives and activities have to be adjusted to the epidemiological and socioeconomic conditions in countries. The implementation of efforts to prevent and control malaria using appropriate technology requires the involvement of the community.

#### CONTENT AT DIFFERENT LEVELS OF CARE

Antimalaria activities include various combinations of approaches involving man, vector, parasite and their environment. The alternative approaches adopted are dependent upon the objectives and prevailing epidemiological situation in each country. The objectives may range from reduction of mortality in some areas to full-scale country-wide malaria eradication.

In order to carry out these activities not only personnel at different levels of the health system are involved but also other groups of people, ranging from the individual, the family, the community, as well as personnel in other sectors such as agriculture and environmental sanitation.

The activities are broadly categorized into:

- the early recognition of suspected malaria cases, appropriate treatment and referral;
- preventive treatment to high-risk groups of populations (e.g. expectant mothers, children 0-4 years and adults in communities of high economic importance);
- reduction of the prevalence of malaria, through a reduction in vector longevity, man/vector contact and vector population;
- interruption of transmission of malaria.

A description of the different types of antimalaria activities and the relevant tasks and support required to carry them out is provided in the matrix. In most instances the use of a combination of antimalaria control activities is required.

Listed hereunder are examples of the types of decisions and actions relevant to the prevention and control of malaria at different levels.

### Home level:

- recognition of usual symptoms of malaria, particularly fever;
- decision to contact and/or utilize health services to seek care;

- acceptance of the prescribed treatment, e.g. preparation of blood slides from and administration of essential drugs to tever or suspected cases;
- acceptance of and cooperation in operations concerned with the spraying of residual insecticides;
- involvement in environmental activities aimed at the prevention of malaria, e.g. selection of building sites, peri-domestic sanitation, etc.

### First health facility:

- preparation and microscopic examination of blood slides or referral to hospital;
- recording and reporting data on malaria morbidity and mortality;
- training community members and community health workers whenever possible;
- monitoring and evaluation of malaria chemoprophylaxis and treatment;
- promotion of information/education concerning malaria treatment, chemoprophylaxis, spraying operations, etc.;
- application of larvicides, particularly in urban areas.

#### First referral level:

- provision of adequate management for severe/referred cases;
- participation in the guidance, supervision and continuing training of community health workers and health services' personnel;
- epidemiological and operational evaluation of antimalaria activities on a continuing basis.

#### INDICATORS OF PROGRAMME EFFECTIVENESS

Some types of indicators for the assessment of the effectiveness of malaria control activities are listed below:

- percentage of people, particularly of pregnant mothers and parents, having heard of the importance of malaria prevention and control and the means of achieving them;
- percentage of people covered by malaria chemoprophylaxis and of patients correctly diagnosed and adequately treated;
- percentage of reported malaria cases confirmed by laboratory diagnosis;
- number of deaths due to diagnosed malaria.

In more advanced malaria control programmes, the indicators could refer to spleen and/or parasite rates, larval and adult vector densities, etc.

#### PHC ELEMENT No. 6: PREVENTION AND CONTROL OF LOCALLY ENDEMIC DISEASES

#### (b) Hypertension

#### - Narrative Summary -

#### INTRODUCTION (General Objectives)

High blood pressure is an ubiquitous health problem and from 8 to 18% of adults in most countries, both developed and developing, have pressures above 160 mm Hg. systolic and/or 95 mm Hg. diastolic.

A community approach to its control is feasible because high blood pressure is easily identified and the benefits of adequate control, e.g. in preventing cerebral stroke, are well-established; furthermore, hypertension control measures at the community level do not involve highly specialized activities and can be incorporated into PHC as part of the existing health systems infrastructure.

The long-term objectives of such efforts are: first, to prevent hypertension if possible, and second, to reduce the mortality and morbidity due to the consequences of high blood pressure. The main approaches to these goals are through education of the public and the provision of progressive patient care, including patient education and rehabilitation when necessary.

#### CONTENT AT DIFFERENT LEVELS OF CARE

In any community where the problem of hypertension warrants community control measures, the range of actions outlined in the matrix for PHC Element No. 6(b) must be realistically adapted to local circumstances, resources and constraints. For example, extensive screening surveys should not be carried out unless resources are available to provide for the care and long-term follow-up of the patients. However, incidental screening, i.e. the routine measurement of blood pressure in all middle-aged people (40-65 years) who report for medical attention, irrespective of the reason for their attendance, is a minimal requirement that is both realistic and feasible.

#### Home level:

There is a certain basic, minimum knowledge concerning the promotion and preservation of cardiovascular health, that every citizen is entitled to be informed about. Where appropriate, this information will be provided as part of the activities covered under PHC Element 1 - "Education Concerning Prevailing Health Problems and the Methods of Preventing and Controlling Them".

In addition, direct health education efforts will be made by CHWs and other home visiting health personnel to obtain the cooperation of individual patients and their families in maintaining continuity of patient care.

#### Health service (including first health facility and first referral level):

The responsibilities of the health service in a hypertension control programme include:

- appropriate training of health personnel and volunteers;
- preparation of the technical information required for the community health education programme;

- detection, treatment and follow-up of hypertensive patients;
- maintenance of functioning two-way referral links with PHC, through supervisory and other supporting services;
- monitoring and evaluation of the programme.

#### INDICATORS OF PROGRAMME EFFECTIVENESS

A number of indicators may be devised to assess whether the programme is moving in the right direction. In order to obtain the information required for these indicators, it is essential to develop an appropriate system for recording, storage and retrieval of data, based on available facilities. The choice of indicators may include, e.g. the percentage of:

- people who have heard of high blood pressure and know that it can be effectively treated;
- hypertensive patients under medical care;
- hypertensive patients continuing treatment or lost to follow-up after a predetermined period, e.g. two years;
- treated patients in whom blood pressure control is adequate;
- referred patients who actually receive the necessary specialized attention and continue in the system;
- stroke patients receiving rehabilitative care;
- people expressing satisfaction or dissatisfaction with specified aspects of the programme.

#### PHC ELEMENT No. 7: APPROPRIATE TREATMENT OF COMMON DISEASES AND INJURIES

#### (a) Diarrhoeal Diseases

- Narrative Summary -

#### INTRODUCTION (General Objectives)

Appropriate treatment of common diseases and injuries in PHC aims at prevention of death and disability resulting from common diseases and injuries so that all children have the possibility for healthy growth and development. Prevention of diarrhoeal morbidity and mortality is a vital part of national strategies for PHC. As diarrhoeal diseases affect almost 100% of the population under five in all developing countries, their control is basic to achieving a healthy population in the future. To enable the programme to be effective, diarrhoeal disease control activities must include substantial components of other PHC elements, such as:

PHC Element 2: Food Supply and Proper Nutrition

PHC Element 3: Safe Water and Sanitation PHC Element 4: Maternal and Child Health.

Diarrhoeal disease control itself includes at least three main functions, namely: diagnosis of diarrhoeal disease and provision of appropriate treatment; management of outbreaks of diarrhoeal disease; and prevention of diarrhoeal diseases. In a PHC context, activities related to these functions involve not only health personnel, but groups of people in the individual home, and the neighbourhood as well as in the community. At each of these levels a number of tasks have to be carried out in order to achieve the above objectives and for this support is required in terms of appropriate information, appropriate technologies, equipment and supplies, improved communication, supervision and technical support.

### CONTENT AT DIFFERENT LEVELS OF CARE

A detailed description of the relevant tasks and the support required to carry them out is given in the matrix (see PHC ELEMENT No. 7(a)). A few examples of types of decisions and actions relevant to diarrhoeal diseases control at different levels of care may be listed as follows:

#### Home level:

This is where a number of primary decisions and actions take place, without which the rest of the programme will not benefit children. These actions include:

- correct feeding of the child who has diarrhoea (i.e. continuing breastfeeding and maintaining adequate fluid intake, using safe and appropriate solutions);
- recognition of dehydration and ability to take appropriate action when it occurs, e.g. seeking care, obtaining ORS packets and using them correctly;

- knowledge and practice of personal hygiene with regard to the handling of food and water, proper use of latrines and the disposal of excreta;
- informing health authorities of suspected outbreaks of diarrhoeal disease as soon as possible.

#### Communal level:

The community has a number of ways of giving support to the home level as well as to the health programme itself, through its various groupings. In addition, there are a number of tasks related to diarrhoeal disease control that can, or should, take place as communal actions, initiated by the Community Development Committees or similar bodies and involving community groups as well as volunteering or selected community members. Some examples are:

- performance of tasks related to the provision of safe water and basic sanitary facilities (as in PHC ELEMENT No. 3: Adequate Supply of Safe Water and Basic Sanitation);
- informing health authorities of suspected outbreaks of diarrhoeal diseases as soon as possible;
- implementation of appropriate measures to control outbreaks e.g. decontamination of water, proper waste disposal.

Health service (including first health facility and first referral level):

The health personnel carry out very important activities in support of those performed at the home and communal levels. These include:

- determining the cause of diarrhoeal disease (as far as possible) and providing treatment that is appropriate to the cause and to the degree of dehydration;
- packaging and supplying oral rehydration ingredients;
- investigating the cause of outbreaks of diarrhoeal diseases and determining appropriate methods for their control;
- establishing and managing temporary treatment centres during serious outbreaks of diarrhoeal diseases;
- training and supervising all categories of health workers, including non-medical personnel, required in support of the necessary treatment and control measures;
- educating family members and the community about the importance of the tasks related to the provision of safe water and basic sanitary facilities.

#### INDICATORS OF PROGRAMME EFFECTIVENESS

The choice of indicators for monitoring and evaluation of programmes will vary with the setting and the priorities, but the following are some suggestions for the type of indicators to be used for assessing the effectiveness of diarrhoeal disease control activities:

- diarrhoeal disease morbidity rate;
- diarrhoeal disease mortality rate;
- proportion of health posts by geographical location from which OR packets are available;
- percentage of cases of children with diarrhoea treated with OR therapy;
- percentage of reported diarrhoeal disease outbreaks receiving appropriate response within 48 hours of report;
- percentage of the population receiving a message about proper use and maintenance of water supplies and proper excreta disposal practices.

## PHC ELEMENT No. 7: APPROPRIATE TREATMENT OF COMMON DISEASES AND INJURIES

#### (b) Common accidents in the home

## - Narrative Summary -

### INTRODUCTION (General Objective)

Accidents are among the 10 highest causes of death in most countries. Amongst children it is often the most common cause of death, in developing as well as developed countries, and these accidents to a large extent occur in or around the home. They often result in lifelong disability, and the care of injured and disabled people consumes much of the health budget in many countries.

The aim, therefore, must be not only to provide first aid on the spot and adequate treatment at the appropriate level of care, but also to prevent the occurrence of similar accidents in the future and to provide programmes for active rehabilitation of disabled persons, children as well as adults.

#### CONTENT AT DIFFERENT LEVELS OF CARE

Three types of home acdcidents have been chosen as examples; namely cuts, burns and scalds, and poisoning. The detailed tasks related to activities or treatment of these accidents have been elaborated in the matrix for PHC Element No. 7, together with the types of support needed, as well as competence and knowledge (see also the matrices for Elements Nos 1 and 8). Some types of action needed at different levels of care are given below:

# Home level:

Since the example chosen deals with accidents occurring in the home, and since most of these accidents will involve children, the persons primarily responsible for actions at this level will most often be a parent or another adult family member, who will have to:

- participate in courses in first aid or other education activities;
- recognize the type and the extent of the injury;
- take limited action of emergency nature, avoiding potentially harmful actions;
- call for more skilled help at home or take the injured to the nearest treatment facility;
- take measures to prevent reoccurrence of similar accidents;
- if needed, continued activities in the home for rehabilitation of functions.

The trained health workers in the same community will have to:

- respond to emergency calls and take adequate measures;
- inform the family how to prevent accidents;
- give follow-up support for rehabilitative actions.

#### Communal level:

Activities at this level will be more important and more extensive in relation to road accidents, accidents at work, etc. However, for home accidents the community can still give important support, such as:

- inclusion of teaching about first aid and accident prevention in school health programmes, activities by community groups, etc.;
- assistance with emergency transport;
- development of rehabilitation programmes, employment schemes for disabled persons, etc.

# Health services (including first health facility and first referral level):

- emergency treatment and referral, if needed;
- comprehensive treatment of injury to prevent disability;
- when appropriate, rehabilitative treatment and referral for reconstructive surgery, etc.;
- participation in health information programmes;
- training and supervision of health workers.

## INDICATORS OF PROGRAMME EFFECTIVENESS

The indicators listed below are to be seen as examples of indicators illustrating either effectiveness in avoiding death or disability (curative care component) or effectiveness in preventing accidents (preventive measures/education-information). They are related, although not confined to accidents in the home:

- percentage of households with at least one person having participated in a first aid course;
- percentage of communities having developed rehabilitation programmes for disabled;
- reduction of mortality due to accidents in the age group below five years;
- reduction of incidence of disability among children below five years;
- reduction of number of accidents among children under five years.

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### PHC ELEMENT No. 8: PROVISION OF ESSENTIAL DRUGS

- Narrative summary -

#### INTRODUCTION (General Objectives)

A major contributor to increasing costs in a country's health budget is the drug component. Drugs are too often produced and procured in response to the marketing inperatives of pharmaceutical industries rather than to health policies and priorities. There is a need for health systems based on primary health care to regulate both the production or purchasing of drugs and the prescription or usage practices at all levels in order to improve both the cost-effectiveness and the safety of drug management.

WHO has promoted the preparation of an international list of some 200 "essential" drugs, the aim of which is to provide guidance in drug management. However, it is the responsibility of each country to elaborate its own list of essential drugs, guided by the prevailing health problems that have to be tackled. The provision of essential drugs aims at making these drugs available to the users of the health systems at all levels of primary health care, all over the country, at all times by instituting an efficient system of drug acquisition, storage, distribution and utilization.

To achieve this, it is necessary for all persons concerned with primary health care to participate actively in the "management" of drugs at their own level. Drug management in primary health care is an integral part of the overall drug management plan for a country-wide health system.

#### CONTENT AT DIFFERENT LEVELS OF CARE

Before discussing this heading in any detail, two clarifying remarks are needed.

For easy reference, the essential drugs have been divided into groups as follows:

- A Drugs provided by the system to different levels of PHC for free distribution to the patients; this group is subdivided into:
  - A1 drugs supplied to individual patients, and
  - A<sub>2</sub> drugs distributed to homes for constant use, e.g. preventive drugs, disinfectants, etc.;
- B Drugs bought with prescriptions from private pharmacies;
- C Drugs bought without prescriptions including locally available herbal medicines and home remedies.

The activities and tasks assigned to responsible persons in each level of PHC have to be realistically adapted to local conditions. They may differ from country to country or even within the same country depending on several constraints: human, financial and material resources, geographical (climatic), demographic and cultural patterns, etc.

#### Home level:

Persons responsible in the home should know about the existence and capability of health facilities and pharmacies in order to obtain the drugs in Group A. This is also applicable to the drugs in Group B; but for drugs in Group C the family members should be able to recognize the general symptoms of disease and to make decisions about giving self-care or to contact the health facilities.

When drugs are acquired, they have to be kept away from dampness and heat and must be made inaccessible to children.

The responsible person(s) should administer the drugs to the sick person(s) at the right time and in the right amount and should also observe and report on the overall effects of the drugs.

# First health facility:

The responsible persons should know how to project drug needs and how to requisition drugs.

When received, the drugs should be kept under favourable conditions (away from dampness and heat, rodents, insects, dust and dirt) possibly in closed drug cabinets. The implementation of the rules of stock rotation, including consideration of expiry dates, is of crucial importance. The responsible health personnel should know about drug reserve and emergency stock and should be able to keep a record of drugs.

The staff in charge should distribute the drugs to patients, provide them with information about their utilization, and keep records of overall effects that have been reported. The responsibility to teach and guide the community and home level is an important function of the first health facility.

#### First referral level:

The duties regarding drug management are basically the same as for the first health facility except that the persons responsible for other aspects of drug management (pharmacist or drug store-keeper) may be different from those responsible for the utilization (prescription) of drugs (doctor).

In addition to stock-keeping, stock rotation and allocation of drugs to different outlets, this level is responsible for the training of personnel in the first health facility.

The reports on efficacy or side effects of drugs, changes in local needs and priorities have to be assessed at this level and transmitted to higher levels for necessary action.

# INDICATORS OF PROGRAMME EFFECTIVENESS

A number of indicators can be devised to assess the effectiveness of provision and management of essential drugs in primary health care:

- percentage of households eligible for constant distribution of drugs in group A<sub>2</sub> that actually receive the drug;
- percentage of individual patients supplied with drugs from group A<sub>1</sub>
   who use it properly;

- percentage of pharmacies, health facilities and first level referral hospitals that have:
  - proper and operational storage facilities;
  - sufficient quantities of specified essential drugs to last for the period between two stock deliveries, including emergency stocks;
  - proper and operating systems for stock rotation and stock keeping;
  - appropriately trained responsible personnel;
- percentage of health facidlities/first referral level hospitals, that have a functioning system for monitoring and recording the effectiveness and side effects of selected essential drugs;
- percentage of such facilities that have an operational system for regular sampling of drugs for quality control;
- percentage of the drug samples taken during quality control surveys that were found adequate according to accepted quality standards.

# PART II

#### GLOSSARY OF TERMS

The purpose of this glossary is to explain the terminology used in the framework of the matrices.

Element:

Refers to the eight elements of primary health care,

as defined in the Alma-Ata Declaration.

Activity:

Refers to broad activities that constitute essential components of the content of a particular PHC element.

Level:

Home, communal, first health facility and first referral level. See the paper on "Definitions of various levels of primary health care".

Tasks:

The core content of primary health care: the detailed tasks that have to be performed in order to improve/maintain health. The decision as to which tasks are essential (i.e. priority tasks) has to be taken at the national level, based on the priority ranking of health problems and strategies.

Person(s) responsible:

Refers to the various persons at different levels who will have full or partial responsibility for carrying out the tasks required. Who is exactly responsible for a specific task will vary from country to country, depending on existing legislation, health system infrastructure, cultural factors, etc.

Competence and knowledge required:

Skills and knowledge that persons who are going to carry out the specific tasks need to possess, i.e. the content of education or professional training programmes. The type of knowledge needed may often be the same, for example, for a physician and the mother of a child; while the depth required will vary considerably.

Supplies and equipment:

The "hardware" support needed at different levels for specific tasks, such as, clothes for the newborn baby at home; obstetric equipment at the first health facility or referral level; material for preparing blood slides; microscope; drugs, etc.

Logistic support:

Various types of support activities from higher levels, such as supervision, educational programmes, referral systems, consultant expertise, etc. It also includes facilities for transportation, transport and equipment maintenance, etc.

Community support:

Refers to a variety of intersectoral programmes or activities at the level of the community that can provide direct support to activities at the other levels in the matrix.

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
Health Promotion	1.1 Home	a) Acquisition of basic knowledge of personal hygiene, proper	- family members	- knowledge of available health facilities - ability to impart	- health promotion literature - demonstration	- adequate means of communication to facilitate health education/infor-	- volunteers to hely in health promot- ion
		nutrition, common health hazards and how	: : : .	knowledge to others	materials inclu- ding material for functional	mation efforts, e.g. informal networks of village communi-	- activities of self-help groups
	.*	individual and group behaviour influence and	i die	functional literacy techniques	literacy classes	cators, local radio, local newspapers, etc.	<ul> <li>promotion of the concept of healthy behaviour by</li> </ul>
		promote health		- knowledge of how health contributes to individual family welfare		- public recrea- tional facilities for individual	community leaders - support for functional
		b) agreement to act				and group activi- ties	programmes
		knowledge acquired		- as above		- provision of appro- priate literature	- support for functional literacy
			***				programmes
		c) support to family members	community health workers volunteers teachers	- as above	- as above	- as above	- as above
	1.2 Communal	a) mobilization of community groups to promote posi- tive health, e.g.	community health and development workers teachers	- knowledge of human resources within the community	- as above in 1.1	- voluntary and non- voluntary codes of practice by indu- stry, advertisers,	- support for mass media health information/educ- ation programmes
		parent-teacher associations	volunteers self-help groups	- knowledge of the		etc., e.g. on labelling, adverti- sing and marketing	- enlistment of the food industry to
		b) involvement of femilies in decision-making		fact that health care delivery is an inte- gral part of overall		- provision of supplies and equip-	make better known the caloric con- tent of food and
		concerning their health, through self-health		community development - skills in motivating community groups and		ment not available locally - tax allocations	to observe hygien requirements
		groups, etc.  c) acquisition of knowledge on		in assisting them in mobilizing their energies for health		for promotion of recreation	- support for exist ence of public recreational facilities
•		available health resources and		promotion and protection			
		d) community work on recreational facilities such as aports fields			- appropriate tools and build-		
		e) awareness by industry of its			ing materials		
		responsibilities for health promo- tion	4 , 4				

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1. Health Promotion (cont'd)	1.2 Communal (cont'd)	f) introduction of health promo- tion in school curricula and in non-formal educa- tion	school authorities	- as above in 1.1 and 1.2 overleaf	- teaching mater- ials, radio receivers, etc.	- communal meeting facilities	<ul> <li>volunteer help in school health programmes</li> </ul>
	l.3 First level health facilities	a) counselling of patients on how to maintain or regain health	medical assistant nurse midwife	- ability to communi- cate effectively knowledge of threats to health in the community	- basic health promotion lit- erature and audio-visual materials	- training in communi- cation techniques and in community development work	- recognition of the potentials offered by the first level health facility and its timely and proper use e.g.
		b) education/information of individuals, families CHWs and communities in health promotion		<ul> <li>knowledge of how individual families may be motivated to adopt/ maintain health by behaviour patterns</li> </ul>			for child immuni- zation
	1.4 First referral level	a) as above in 1.3 b) group counsel- ling for health	physicians nurses midwives health inspectors pharmacy assistants,	- ability to impart	- audio-visual materials and equipment on prevalent health problems	- special facility for educational and information purposes	ment in the disse-
			etc.	knowledge  - knowledge about resources - human and material - in the communities they serve, including patterns of leader- ship and skills of members			

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2. Prevention of disease and main- tenance of	2,1 Home	a) acquisition of correct and sufficient know- how of:	family members	- knowledge and ability to act properly in case of emergencies	- first aid kit - simple illus- trated guides	- provision and main- tenance of educa- tional facilities	
health		<ul> <li>prevention of locally endemic diseases</li> </ul>		<ul> <li>knowledge of possi- bilities and limi- tation of self-care</li> </ul>	and material on disease preven- tion	<ul> <li>provision and main- tenance of sport and recreation facilities</li> </ul>	
		<ul> <li>prevention of accidents including burns and fractures</li> </ul>		`- skill in elementary first aid			
		<ul> <li>maintenance of health by positive action such as sport, rest, etc.</li> </ul>	· .	- knowledge of methods of prevention of endemic disease	* :		, <del>1 -</del>
		- correct nutri- tion - water and waste sanitation					
	 : .	<ul><li>b) correct maternal and child health practices, inclu-</li></ul>					
		ding family plan- ning and immuni- zation	5			·	
		c) correct use of essential drugs					
·		<ul> <li>d) acquisition of correct informa- tion on available health services</li> </ul>					
		within the community and at the first level					
÷ .		health facility and timely utili- zation such as					
		proper immuniza- tion of children, accepting guid- ance in family planning, etc.					
		e) support to family members	CHWs volunteers	as above	as above	- home visits by first level health facility workers	- organization of classes or ses- sions to teach
		en de la companya de La companya de la co					family members (esp. mothers) elements of disease and acc

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2. Prevention and maintenance of health (cont'd)	2.2 Communal	a) sustained involvement in:  - creation of healthy environment in the community: i.e. water, waste disposal and environmental safety, food hygiene, etc.  - building of sports and creative leisure facilities (such as cottage industries etc.)  - working towards self-reliance in agricultural production, etc.	community health workers (CHWs) teachers volunteers self-help groups	- ability to communicate effectively with individuals and groups  - knowledge of resources available within the community and the first level health facility  - knowledge of skills of different members or groups in the community  - knowledge and skill of preventive and health promoting measures that can be undertaken by the community itself	- relevant education and information materials on current health issues of the community	-support by first level health faci- lity and first referral level in organizaing classes or sessions for development of skills and know-how in disease preven- tion and health promotion	

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2. Prevention of disease and main- tenance of health (cont'd)	2.3 First level health facility	a) education of family members, community leaders, CHMs, teachers and volunteer workers in prevention of common and endemic diseases b) education on health maintenance by correct nutrition, environmental safety, immunization, maternal and child health, occupational health (esp. agriculture)	medical assistant nurse midwife	- ability to communicate effectively with individuals and groups - adequate knowledge of contents of health messages to be delivered - knowledge about the community they serve, both physically and socially	- reference material on current health problems of the area - guidelines on educational methods and materials - audio-visual equipment, i.e. slide projection, diapositives, etc.	- selection or election of some community members or volunteers to establish contact with first referral level when needed - availability of tools and building materials	- organization of sessions and classes to teach about the prevailing health patterns and methods of preventing them as well as means of health maintenance  - organization of community involvement in health development projects such as construction of water and waste disposal facilities
	2.4 First referral level	a) education of individual patients and community at large on prevention of endemic diseases b) support and reinforcement of educational activities of the first level health facility	physicians nurses midwives health inspectors pharmacy assistants, etc.	- ability to communicate effectively  - some knowledge of counselling  - knowledge of information and education resources within the community and surrounding area that might be utilized, such as newspapers, radio stations, etc.  - adequate knowledge of communities the first referral level serves, both physically and socially		- special facility for education and information purposes - transportation - availability of tools and building materials	- community involvement in educational activities - organization of community involvement in health development projects such as construction of water and waste disposal facilities

Activities	Le ve l	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3. Education to deal with disease	3.1 Home	a) acquisition of knowledge of symptoms of easily diagno- sable prevalent	family members	- ability to recognize possibilities and limitations of self- care in each speci- fic situation	- suitable reference material - appropriate medicaments and	- arrangements for individual and group education	- provision of assi-
		diseases and how to deal with them		- knowledge of appro- priate action to be	supplies	gen Destroyen (see	stance to sick people such as preparation of
		<ul> <li>b) ability to take proper decisions for self-care or for seeking help</li> </ul>	er i far e T	taken in each speci- fic situation			meals, taking care of children, etc.
	1 70	c) support to family members	community health workers volunteers	– as above	- as above	- mobilization of family members for participation in health education	
						programmes con- ducted by first level health faci- lity and first re- ferral level on how to deal with disease	
	3.2 Communal	a) organization of self-help groups assisting family members in their health and	communith health workers teachers	- ability to communi- cate effectively  - adequate knowledge of resources in the	- access to easy and illustrated reading mater- ial	- community meeting facilities	•
		social problems b) assignment of	self-help groups	community: human, institutional, agri- cultural, etc.	+ ‡		
	·	one or more persons in each community to		- knowledge of the concept of community			
		assume special responsibility for health with- in the community		organization			
		c) decision-making in case of pre-					
		vailing diseases on the proper action to be taken					

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3. Education to deal with disease (cont'd)	3.3 First level health facility	a) education/information of individual patients and community on symptoms of easily recognizable diseases especially among children, and ways of dealing with each case b) information of community at large of the services available at first level health facility and at the first referral level	medical assistant nurse midwife	- ability to communicate effectively with groups and individuals - knowledge of resources in the community, both human and material - literacy and numeracy	- simple audio- visual equip- ment such as slide and film strip projec- tions, demon- stration faci- lities such as pictures, posters, etc.	- provision of material not available locally - provision of medicaments appropriate for use by each family	- volunteers to col- laborate with first level health facility - communal room or place for meet- ings, gatherings, etc.
	3.4 First referral level	a) reinforcement of education and informational activities of the first level health facility  b) counselling of individual patients on how to deal with disease and avoid recurrence  c) provision of onthe-job training in education and information for the CHWs		- ability to communicate effectively with individuals and groups - ability to impart knowledge - knowledge about resources (human and material) in the communities they serve, including patterns of leadership and skills of members	- audio-visual materials for education of community members and also for teach- ing of first health level workers	- as above in 1.3	- involvement in organization of volunteer groups both for perma- nent health work and in case of emergencies

ctivities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
Promo-	1.1 Home	a) application of simple improve-	father	- understanding of prop-	- simple information	- supervision	- local
of food		ments in the technology of food preservation and storage	mother	posed methods for improving food preser-	booklets on home economics as	- information	farmers coopera-
supply		preservation and storage	motiter	vation and storage	related to food	torough mass	tives an
200511	l	b) proper management of food budget	grown up sone	vacion and scorage	related to 1004	media	rural
		in terms of nutrient content vs.		- understanding of food	- simple brochures on		banks
	ł	cost	1	value vs. cost of more	improving food con-		
				important food items	servation, storage		- Communit
		e) utilization of facility or prog-		· .	and production		Develop-
		ramme to improve use of food		- awareness of any fac-	technologies		ment
		budget, i.e. food stamps, subsi-		ility or programme that	<b>\</b>		Committe
	1	dies, special shops, food for		can decrease food bud-	- simples brochures	i '	
	<u> </u>	work, feeding programmes		get or generate income	on use of rural		- Inter-
		43 /	ļ	using improved	credit, formation of		sectoral
		d) improvement of the yield, qual- ity, nutritional or monetary	)	technology	cooperatives, marketing facili-		programm related
	1	value of crops	}	- knowledge of the pro-	ties etc.	1.1	agricul-
	1 '	value of crops		grammes carried out	Lies etc.		ture,
	]	a) improvement of animals husbandry		through social workers,		· ·	animai
	]	agriculture and the use of land		agricultural extension-			husbandi
	]	and water technologies		ists, agricultural		1	fishing
		•		credit cooperatives, i.e.			etc.
		f) utilization of agricultural		non-health sectors that			
		extension and rural credit	1	can help improve food			
		facilities for above		production and		•	
				availability			
		a) home visiting to become acquain-	CHW	as above in 1.1 plus:	as above in 1.1 plus:	- supervision and	as above i
		ted with family food problems		·	ļ	on-the-job	1.1
		and reasons for inadequate	social welfare		- appropriate teach-	training	
		supply, as applicable	worker*	relevant information in	ing/learning aids		
				local languages	]	- transport	
		b) information and demonstration	agricultural		- manuals, guidelines	, I	
	<b>.</b>	concerning programmes being implemented and that can	extension workers*	- skill to demonstrate appropriate technologies	1 1		
		increase food budget, and	MOTKETS.	appropriate cecunorogies	]		
		increase yield of crops.		1	· ·	15	
		indicate field of dioper					
		c) education and demonstration					
		concerning food value vs. cost,					
		methods to improve food preserv-		: -	<u> </u>		
		stion, storage, etc		The state of the s			
				I .			
			•		1		
-		d) education and demonstration	-	The state of the s		at a second	
		d) education and demonstration concerning better use of land and water resources.					

<sup>\*</sup> Through intersectoral information and cooperation these workers would visit homes and participate in community meetings to carry out their specific sectoral activities.

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
	1.2 Com- munal	<ul> <li>a) assurance that the community is well informed about programmes that can increase/generate income</li> </ul>	CHW Community Development Committee	as above in 1.1, plus:  - knowledge of organiz- ational, administrative and political capacity	as above in 1.1, plus: - tools, seeds, fertilizers	as above in 1.1, plus: - meeting facilities	- selection of persons for CHW training
		<ul> <li>b) information/education/demon- stration concerning methods of increasing yield, nutritional, monetary value of produce</li> </ul>	agricultural extension workers*	of programme  - ability to get active support from the community		- government support to schemes to increase food production and availability and	- pressure on govern- ment and other agencies
		<ul> <li>c) promotion of the creation of cooperatives for better prod- uction and marketing of food</li> <li>d) support schemes to improve</li> </ul>	social welfare worker* mass and women's assoc-	- information about and knowledge of how to use potential outside assis-		better use of land water resources, animal husbandry, etc	
		water supply  e) support programmes to increase quantity and quality of food produced	political party(ies)	programmes that can increase food supply		- food production/ availability surveys	availa- bility - provision in cash or
	·	f) aquisition of food aid and creation of feeding programmes as necessary  g) organization of meetings to	religious groups				kind for help in communal projects to
		inform/educate/organize com- munity on methods/programmes to increase food production, food budget, income generation	Post of the		e partie		food supply
I.	1.3 and 1.4 First level health	a) training and supervision of CHW      b) participation in group     educational activities	medical assis- tant nurse	in a course for teachers of CHWs	- manuals, guidelines - teaching/learning aids	- records and information keeping	
	facility and first referral level		midwife nutritionist/ dietician	- ability to teach and supervise tasks			5 (A)
			public health nurse as available			#	

<sup>\*</sup> Through intersectoral information and cooperation these workers would visit homes and participate in community meetings to carry out their specific sectoral activities.

tivities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
	.1 Home	a) breast-feeding for as long as	mother	- understanding the rela-	- very simple booklets	- supervision	- health
tion of		possible and introduction of	1	tionship between the	on child care and		volunteer.
nutri- ion and		supplements progressively as from the 5th month	grandmother	health of the child, its	nutrition	- information and	to help
preven-		rrom the oth month	other family	growth and development, and the type and amount	- growth chart	education through mass media	CHWs in their
tion of		b) preparation of foods for child-	members and	of food it receives	- Stoatu cuart	mass media	tasks dur
PEM* in		ren with special attention to	neighbours	01 1000 IL 16C614CB			ing home
children	4-	supplementary foods		- knowledge and ability			visits
under			· .	to prepare food that is			
three		c) application of adequate food		suitable for children of			
years		and culinary technologies in	1	different ages from	e vitalia e e	A 1	
of age		the preparation of food for	1	common available food-		·	
		young children	* +	stuffs, particularly the			-
l l				preparation of supple-			
ţ		d) preparation of foods in a		mentary foods			
1		hygienic way and boiling of	1	- lumantadas as ab- saad			
- (	-	left-over foods before giving them to the child	i i	<ul> <li>knowledge of the food value vs. cost of the</li> </ul>			
-		them to the child		more important items			
	ĺ	e) feeding the child at least 4		more important reems			
- 1		times a day and addition of fats		- knowledge that food is	•	·	
i		or oils plus sugar to the		a common vehicle for	•		-
		child's food on a regular basis	, ''	diarrhoea and how to	· ·		
				prevent it			
- 1		f) feeding child with patience when				·	. 1
."		ill and taking particular care		- knowledge of the advan-			
		to feed him well during convales-	1	tages of breast-feeding		•	A 2. 14
		cence		and awareness of the			
		A . 1911		dangers of bottle- feeding. If forced	*10.00		
		<li>g) utilization of feeding prog- rammes, day care centres for her</li>		to bottle-feed,	1	l i	
1	i	children, when existent and if		knowledge of how to			
		appropriate		prepare suitable form-	1.0		•
i		uppropriate		ulae, administer in a	. 17		
	ł			hygienic way and in	1		
	ŀ			sufficient quantity.		5	
- 1							
	ļ			- understanding the weight			
ŀ				chart and knowledge			
				that the baby is well			
- 1	Į.			if it gains weight		*	
	ľ			- knowledge that an ill			
	. [		]	child needs food and	1		
	1		(	that sufficient food is	· · · · · ·		
· 1				essential during	. 1		
	. i			convalescence	i i		
# E	J.				l		
. [				- understanding the rela-	į		
- 1	- 1	and the second second second		tion between child			
				spacing and nutrition			

<sup>\*</sup> PEM - Protein energy malnutrition

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
	2.1 Home	a) home visiting to become     acquainted with the feeding pat-	CHW	as above in 2.1, plus:	- manuals and guide- lines	- supervision and training	as above in
s 1 .		terms of children, beliefs about foods, food availability, social and other factors that consti-		- capacity to communicate relevant nutrition educational messages in	- portable teaching/ learning material	- transport	
		tute risk for proper nutrition of the child		local languages - capacity to evaluate	- portable scales		
	-	<ul> <li>b) home visiting for education of and information and demonstra- tions to mothers and surrogates</li> </ul>		nutritionally signifcant changes in behaviour	- growth charts - paper, pencil		
		on tasks and competences as defined for family members	*	<ul> <li>understanding the rea- sons why the noted tasks competences and know-</li> </ul>	eraser - measuring tapes		
		c) assessment of nutritional status of under threes (weighing		ledge of the recipient persons, are important	megonirum rahee		
	·	arm circumference), inspection of weight chart and reinforce- ment of knowledge of growth		in promoting better nutrition and prevent- ing PEM			
	\$ #	chart	•	- ability to develop good human contact with	 		
	<i>i</i>			individuals and groups and to impart knowledge through relevant mess-		· .	
	·			ages delivered in local languages	14.1 1		
		are en la Merce de la Secretario		- thorough understanding of the weight chart and the interpretation of			
				progress and nutritional status			
a at t			· · · · · · · · · · · · · · · · · · ·	- correct utilization of a portable balance and noting weights in growth chart			
				- utilization of an arm circumference and or tape and knowledge to			
				interpret findings - knowledge of the foods used in the community,			
				technologies and prepara- tions used, patterns of feeding, prices of foods, breast-feeding practices,			ı
				food taboos, etc			
				relationship between infectious diseases and nutritional condition especially diarrhoes and measter			

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community Support
	2.2 Com- munal	a) designation of trainees for CHW and health volunteer courses	Community Dev- elopment Committee	as above in 2.1 plus:	as above in 2.1 plus:	as above in 2.1	- Community Develop- ment
		b) acquisition of food aid, as necessary	agricultural extension	administrative capacity	booklets, guidelines and manuals, simple group educational	support for feed- ing centres, day care centres, as	Committee
	• .	<ul> <li>c) assistance to set up feeding schemes, day care centres, as necessary, and checking nutrit-</li> </ul>	workers mass and	- ability to coerce the active support of the community	elements, growth	required	and politi
* .		ional status of recipients	women's org- anizations	- information and know-	- food, as necessary	ritional status, food habits, food	- otner
		<ul> <li>d) organization of meetings for nutrition and child care education and demonstrations</li> </ul>	political party(ies)	leage on how to use potential outside help for communal programmes	<ul> <li>fuel and cooking utensils as necessary</li> </ul>	production and availability	community organiza- tions
		e) information/education of com- munity leaders on food and nutrition and their importance	religious groups	- understanding the food needs of the community and the importance of	- meeting facilities - group feeding and		- group feeding and day
		on health/survival of the young  f) nutrition group educational	CRW	nutrition on the health and survival of children	day care centre	, S	care centre volunt-
·		activities  g) assessment of nutritional			,		eers
		status, as applicable			•		
	2.3 First level health	a) training and supervision of CHW as applicable	medical assistant or physician	- previous participation at a course for teachers of CHW		- meeting facilities	as above
	service facility	<ul> <li>b) provision/distribution of guide- lines and manuals, as applicable</li> </ul>		- ability to teach and supervise, following	- appropriate kits for CHW		
,		<ul> <li>c) provision/distribution of growth charts, scales, measuring tapes, educational material, etc, as applicable</li> </ul>		the indications of the teachers manual and guidelines, the know- ledge and skills required by the CHW as	- teaching/learning materials for group educational activities	- supervision and training	
		<ul> <li>d) provision/distribution of supporting material for feeding/ day care centres, as applicable</li> </ul>		described under 1.1, 1.2, 2.1 and 2.2			
		e) promotion of adequate breast- feeding practices					
		f) participation/organization of group activities on nutritional education					
	2.4 First referral level	a) as above in 2.2 if first level health service facility non- existent	as above in 2.2-2.3 plus:	as above in 2.2 if first level not applicable	as above in 2.2 and 2.3	as above in 2.2 and 2.3	· · · · · · · · · · · · · · · · · · ·
		b) training and supervision of 2.3	public health nurse nutritionist/ dietician				

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3. Treat ment and rehabili tation of	3.1 Home	a) feeding of child according to recommendations of CHW and Health Volunteer  b) feeding supplements as indicated by CHW and Health Volunteer  c) weighing child at least every	mother grandmother other members of the family	- knowledge of the relation between malnu-trition and proper feeding rather than reliance on "tonics" etc - knowledge of how to prepare and administer	- simple booklets on child care, nutri- tion and care of PEM - food supplements - vitamin/mineral	- supervision - transport - appropriate information on continuation of treatment after	- food supple- ments - Health Volunteers
		2 weeks and its progress recorded on the growth chart		the malnourished child's food	supplements - growth charts	referral	organiza- tions to provide
Hi.		<ul> <li>d) referral of malnourished child to proper level as indicated by CHW</li> </ul>		<ul> <li>knowledge of how to use, prepare and administer food supplements</li> </ul>			care while mother is absent
		e) notification of CHW when child has returned from higher level of health care		- knowledge of the mean- ing of the growth chart			* * * *
		f) adhesion to special indications from higher level on treatment of concomitant diseases		<ul> <li>understanding of, and and ability to follow, treatment schedule for concomitant diseases</li> </ul>			t e
				prescribed by higher levels of health care			

ctivities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logisti <b>c</b> support	Community support
•	3.1 Home	g) home visiting of children recovering from PEM at least	CHW	as above, plus:	as above, plus:	as above, plus	as above
		twice a month	Health Volunteer	- ability to explain in local language the	- scales	- record keeping	
. •		h) identification of risk factors and introduction of appropriate	rozumece;	threat to life posed by PEM and that recovery	measuring tapes	- data gathering and interpretation	
		actions against them		depends on how the child	- manuals and guide- lines	on prevalence of PEM	
		adhesion to guidelines on home     treatment and rehabilitation of		- knowledge to classify	- portable teaching/	£ 291.9	* •
		children suffering from PEM		PEM using weight, arm circumference and	learning material	e e e	
		<li>j) education on treatment and demonstration of use of ordinary</li>		clinical observations		e e	
		foods for above purpose		- knowledge to identify oedema, skin changes			
		<ul> <li>k) distribution of food supplements and demonstration of their use</li> </ul>		wasting as signs of severe PEM			
		1) referral of cases of complica-		- understanding the diet-			
		tion or unresponsive cases of severe PEM to higher levels		ary treatment of PEM	·		
		m) explanation of the therapeutic	·	<ul> <li>knowledge of local foods and special supplements</li> </ul>	e e e e e e e e e e e e e e e e e e e		** *
		measures indicated at higher level		used in the treatment of PEM and how to prepare			
		n) close monitoring of the treat-		them			
		ment indicated from referral		- knowledge of why, when and where to refer	9-8		
		o) provision of iron tablets and Vit. A to all children suffering		children for treatment and rehabilitation			** *
		from PEM and explaining their use		- understanding the role of certain infections in			
	į	p) recording cases of severe PEM		or certain intections in producing and aggravating PEM			
				- ability to identify		į	
			N - 41	anaemia in PEM and treat			
				- understanding danger of			
				Vit. A deficiency in PEM and how to treat it		·	
}			: }	and now to treat it	)		

Activíties	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
	3.2 Communal	<ul> <li>a) collection of data on prevalence of PEM</li> <li>b) utilization of data to reinforce activities</li> <li>c) assistance to families of children with PEM who present social risk factors susceptible to correction through prompt community action</li> <li>d) setting up feeding schemes, day care centres, as necessary</li> <li>e) action to ensure proper access to higher health referral levels</li> <li>f) coverage of the needs of family if mother absent</li> </ul>	government officials women's and other organ- izations political party(ies) teligious groups Community	- knowledge of the imp- lications of an increase in prevalence of PEM  - knowledge of what can be done to assist fami- lies with social risk factors  - organizational and administrative abilities  - knowledge of where and how to get assistance for feeding and day care schemes	feeding schemes and day care centre  - kitchen and feeding rooms  - storage facilities	as above in 3.1 plus: - transport	- support from women's and mass organiza- tions in helping to manage group teeding - assistance to fami- lies with social risk factors
	3.3 First level health service facility	a) training and supervision of CHW b) provision/distribution of guidelines and manuals to CHW c) treatment of uncomplicated	medical assis- tant (or physician) nurse/midwife	as in 2.3 & 3.2 plus:  - knowledge and ability of how to diagnose and treat severe PEM	- material needed for training of CHW - material to be distributed to CHW for the performance	- transport - record keeping - collection of data and interpretation	
eta (		severe PEM  d) referral of uncomplicated severe PEM to nutrition rehab- ilitation centre if available	trained auxiliary mother	- knowledge and ability of how to diagnose and treat the complications and emergencies in children with PEM	of their tasks  - supplies and equip- ment for the diagnosis and treat- ment of the compli-	- supervision and training	- support from women's and mass organiza-
		e) diagnosis and treatment of concurrent diseases in children with PEM  f) referral to higher level if facilities not adequate		<ul> <li>knowledge and skill of how to prepare and administer diets needed in the treatment of severe PEM</li> </ul>	cations and emergencies in children with PEM - teaching and demonstration aids		tions - support from other community organiza-
		g) back-referral of discharged patient to CHW with clear indications on how to follow-up h) breast-feeding by mother and		- ability to teach and demonstrate to mothers and preparation and administration of food necessary for the the rehabilitation of	for mothers		tions
		participation in feeding demonstrations  i) collection of information on prevalence degree/types of PEM and onforwarding to higher level as applicable		severe PEM			
		j) provision/distribution of food and vitamin/mineral supplements CHW or mother, as applicable. k) provision/distribution of growth charts, scales, measuring tapes, educational materials, etc. to CHW, as applicable					

ctivities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
	3.4 First referral level	a and b as under 3.3	physician/ paediatrician	as above in 3.3, but corresponding to this level of referral	as above in 3.3 but corresponding to this level of	as above in 3.3	as above in 3.3
	teAet	<ul> <li>c) treatment of complicated or unresponsive cases of severe PEM</li> </ul>	public health nurse	level of teletral	referral		
:	·	d)diagnosis and treatment of concurrent diseases in children with PEM	nurse/midwife  dietician/				
		<ul> <li>e) referral of treated cases to rehabilitation centre for more complete nutritional recovery</li> </ul>	hospital support		2000		
		f) back-referral of discharged patient to first level and/or CHW with clear indications on how to follow up	personnel mother	**************************************			
	·	g, h, i, j, k as in 3.3 if first level not existent	·	1 - 11 - 24 - 24 - 1			
Treat- nt and event- n of tri nal aemias	4.1 Home	a) self administration of iron/ folate tablets regularly  b) communication to CHW or TBA any problems associated with iron supplementation	pregnant women	- knowledge of the dangers of anaemia and how to prevent them	~ iron/folate tablets		
preg- int men		<ul><li>a) home visiting and examination for signs of anaemia*</li><li>b) explanation of the dangers of anaemia and how to prevent them*</li></ul>	CHW TBA	- knowldge and has the ability to explain the dangers of anaemia and the use of iron/folate tablets in preventing	as above in 3.3  - simple, portable visual educational material	- supervision and training	
		<ul> <li>c) provision of iron/folate tablets and explanation of their use and possible distress in taking them and how these can be overcome*</li> </ul>		them, using local language and portable visual aids - knowledge and skill on how to recognize the			
		d) refers unresponsive severe cases*		more severe cases of anaemia			

<sup>\*</sup> These tasks can be performed in the home or at a communal health facility

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
	4.2 and 4.3 First Level health service facility and first referral level	<ul> <li>a) reinforces b (under 4.1) in referred women and increases the dose as necessary, in unresponsive or severe cases</li> <li>b) identifies non-nutritional factors or causes (parasitic, genetic, etc) and treats whenever possible</li> </ul>	nurse/midwife physician laboratory technicians	as above in 4.1 plus:  - clinical skills and laboratory facilities to recognize different degrees and/or causes of ansemia	as above in 4.1 plus:  - those necessary for a clinical laboratory (minimal for first level health service facility)	- supervision and training - record keeping data collection and interpretation	
		c) back-refers severe/complicated cases to CHW with clear instruc- tions for follow-up					
	÷.	<ul><li>d) training and supervision of CHW and TRA</li><li>e) special treatment in very severe cases</li></ul>					

ivities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
Treat- it and even- i of	5.1 <u>Home</u>	a) administration of one capsule of Vit. A to women after delivery (not to be given after 1 month of delivery)*	CHW TBA	<ul> <li>knowledge of the role that the administration of Vit. A can have in preventing nutritional</li> </ul>	- capsules contain- ing 200,000 units Vit. A (100,000 units to children	- supervision and training - record keeping,	., .
child- under		b) administration of one capsule of Vit. A to all children under 5 years of age, once every six months*		blindness*  - skill to recognize clinical and functional alterations in Vit. A	before one year of age)	growth charts	
age	· ·	<ul> <li>c) administration of one capsule of Vit. A to children under 5 years of age, suffering PEM</li> </ul>		deficiency in children under 5 years of age* - knowledge of the fact			
		d) administration of one capsule of Vit. A to children with acute infectious diseases, at their		that nutritional blind- ness is commonly associated with PEM and infectious diseases, especially measles			
		onset (not to be repeated before three months)  e) administration of one capsule of Vit. A for two consecutive days		- knowledge that Vit. A capsules can be toxic and care exercised with repeated administration			e.î.
		if xerophthalmia suspected, in a child under five  f) education of mothers about the		and in children below  l year of age  - knowledge that xeroph-			
	en in	use of local foods in prevention of xerophthalmia*  g) recording of the administration		thalmia is a health emergency and that treat- ment should begin at once if suspected,			
		of Vit. A capsules in growth chart		certainly before sending child to referral			
				thamia can be prevented by incorporating certain local foods into child's diet			
	5.2 and 5.3 First level	a) treatment of referred cases as emergencies, preferably starting with injectable preparation	physician medical	- skill and knowledge of the diagnosis and treat- ment of xerophthalmia,	- Vit. A capsules of 200,000 units	- supervision and training	
	health service facility and first	<ul> <li>b) back-referral to CRW for follow- up and administration of one further capsule, as necessary</li> </ul>	assistant nurse/midwife	as a medical emergency in the under five - knowledge of the com-	- water-miscible injection of 100,000 units of Vit. A	- record keeping	
	referral level	c) supportive antibiotherapy, local or general, as needed	paediatrician ophthal- mologiat	mon association between PEM and infectious dis- eases with xeroph- thamia/keratomalcia	- ophthalmic anti- biotic ointment/ drops		
		<ul> <li>d) one preventive dose of Vit. A         to all hospitalized children         under five, suffering from PEM         or an infectious disease</li> </ul>		·	- ample spectrum antibiotics	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
1		e) training and supervision of CHW and TBA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
6. Promotion and protection of nutrition in pregnant and lactating women	6.1 <u>Home</u>	<ul> <li>a) increased food intake especially of protective foods during pregnancy and lactation</li> <li>b) participation in supplementary feeding programmes</li> <li>c) assurance that the pregnant or nursing wife gets enough food, and that the supplements obtained from special programmes are consumed by her</li> </ul>	nursing women	<ul> <li>knowledge of the importance of increasing food intake, especially of protective foods, during pregnancy and lactation</li> <li>knowledge of the fact that spacing of births and/or control of births is needed to protect her health and nutrition</li> </ul>	- simple booklets on health and nutrition care during preg- nancy and lactation		- supple- mentary feeding programmes with support of the com- munity organiza- tions
		<ul> <li>a) education concerning the need for increasing food intake during pregnancy and lactation*</li> <li>b) education and demonstration concerning use and preparation of food supplements*</li> <li>c) Correction of negative taboos and misconceptions regarding the use of certain foods during pregnancy and lactation*</li> </ul>	CHW TBA	- knowledge of the relation between food intake during pregnancy and lactation and nutrition/health condition of mother and child  - knowledge of the nutritional value of common foods  - knowledge of how to use special food supplements and to demonstrate their preparation	- simple portable educational material	- supervision and training	
	6.2 Communal Tevel	b) training volunteers for food storage, preparation	CHW  TBA  community organizations workers from other sectors, especially Social Welfare	- knowledge of the need for food supplementation during pregnancy and lactation, especially in conditions of general food shortage - management and admini- strative skills - honesty - knowledge of programmes that may provide food supplements and how to get their assistance	- food supplements  - food preparation facilities, as necessary  - rooms for collective feeding, as necessary  - kitchen and storage facilities, as necessary	- training and supervision of volunteers - transport	- support of the Community Develop- ment Committee - support from com- munity organiza- tions through voluntary work

<sup>\*</sup> Can be carried out at the home or communal level
\*\* Other sectors, notably Social Welfare, are involved in supplementary feeding programmes

Activities Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
6.3 and 6.4 Fir health service facilit and fir referra level	health sector	medical assistant public health nurse/midwife	as above in 6.2 when pro- gramme effected through health sector	as above in 6.2 when programme supported by health sector	as above in 6.2 when programme supported through health sector	

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
l. Promotion of personal and com- munity hygiene	1.1 Home	a) awareness of rela- tionship between unhygienic prac- tices and ill- health	family members neighbours	- some knowledge of relevant communicable diseases and modes of transmission	- an appropriate reference source i.e. simple diagrams appended to:	- through com- munity worker and lst re- ferral level	- literacy educa- tion programme - health education
		b) communicate a) to other femily members c) practice of per-		<ul> <li>some knowledge of relevant techniques of personal hygiene, food handling and water storage</li> </ul>	child care clinic cards and other appro- priate printed materials	- mass communi- cation such as radio pro- gramme	in school, health centre and public place by means of group and mass meeting, includin audio visual aids
		sonal hygiene		- some knowledge of availability of com-			display
		d) instruction of other family mem- bers and introduc-		munity and referral resource persons and health service			- teaching and demonstration at achool
		tion of personal hygiene habits in- to family practice		facilities			- organization of "Hygienic" week/ annual "Clean
All and the second seco		e) discourage indis- criminate defaeca- tion (bush, fields)			t is t is		Premises" compet tion, other campaigns
		f) discussions in the family of the children's school					
•		instruction in health	ļ				
		g) periodic home visits to inspect, instruct and	Community worker (CHW)	Broader knowledge of above plus:	- demonstration material	- relating mass communication promotion of	
		demonstrate as appropriate on personal hygiene		- preferably literacy - basic knowledge of	- guidelines and manuals	activity to this level	
		h) encourage the		community hygiene hazards and preven- tive measures	- simple sudio- visual sids	<ul> <li>provision and updating of equipment aids</li> </ul>	
		family to use mani- tary facility	-	- basic knowledge in community development	- hand tools - family folders	and tools - relating refer-	
		i) promote family contribution to		and communication techniques	- lamily loiders	ral level activities to	
		community action in the improvement construction and		- understanding of basic appropriate		- transportation	I
		maintenance of sanitary facility		techniques of water supply and sanitation		training and supervision	
-		1		•			
			:				A ALA CONTRACTOR

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1. Promotion of personal and community hygiene (cont.)		j) promote the up- grading of sani- tary facilities according to water availability and family income.					
	1.2 Communal	a) demonstration of community sani- tary facility and usage at school or communi-	CHW Health . Volunteer	as above in 1.1 plus: - basic organizational skill	as above in 1.1	as above plus: - provision of meeting facil: ties and space	
		b) promote and moti- vate community actions for (i)	Community Development Committee Teachers			for demonstrat	
		construction, operation, main- tenance and financing of com- munity/sanitary facility; (ii)		en e			
		cleaning of premises  c) raising funds for community facility construction					
		d) organizing annual competition "Clean" premises					
	1.3 First health facility	a) provide advisory services to the community, inclu- ding training in motivation as required	Health workers (mid- wife, nurse, sanitary in- spector) Voluntary workers	Broader knowledge at sub-professional level above in 1.2, plus: - specific knowledge and skills on uti- lization of audio	- promotional and visual aid materials for communities - stores of family folders	- support and supervision from 2nd referral level	- Information on
		b) provide audio- visual aid materials to res- ponsible person c) assist in organi-	WULKELS	visual material - supervision and report preparation	- standard report	resource per- sons with operational skills for demonstration	health status and felt needs of the community which would assist in the
		zing a "Community Development Committee" for "community action"				and promotion purposes  - meeting and demonstration space and equipment	activity planning process can be provided by the community worker community leader(s) and/or community
			1.5				meetings

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1. Promotion of personal and community		d) assist in the demonstration under Community				- suitable transport	
hygiene (cont.)		(1.2) above	2			- provision of supplies and equipment as	
* 1		community health workers				required	. **
		f) guidance for "Community			•		e
	. 4.	Development Committee" members					
	•	g) public informa- tion to promote	·				
•		good achievement of community					
		h) organize work- shop for village committee repre-	1				,
		sentatives  i) progress reports					
		to community <b>and</b> lat referral level.		4			
	1.4 First	a) provide health		The team should have at	- as above, in	- guidance on	
	re- ferral level (public	facility level with the following:	Medical officer, senior health workers (P.H.	its disposal certain professional knowledge of public health, plan- ning and management	1.3	policy and priorities and financial backing from	
	health team or	- advisory services, - assistance in financial, mate-	nurse, sani- tarian and other health	At sub-professional level, competence re-		high referral	
i de la companya de l	senita- tion head- quarters	rial support,	workers)	quired as above in 1.3 with emphasis on health education and super-		- access to spe- cialist advice on health edu-	
	at district level)	technique,	technician	visory capability		cation and community development	
e të Si sek vi	rever,	- publication	:			- have knowledge	
		information, - reporting system				mass media programming	
		- evaluation				- suitable trans- portation	
	N .	b) obtain technical/ professional advice from other					
		referral sources as required			4.4		

Activi	ties.	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1. Promot persor commun hygien (cont.	nal and nity		c) programme plan- ning and budgeting					
2. Supply drinki water		2.1 Home	Construction  a) attendance at community meeting where improved community water supply systems is discussed  b) assistance in construction or improvement of community system	Family members Neighours	- appreciation of need for performing tasks ability to do certain tasks, e.g. unskilled or semi-skilled labour and minor construction and mechanical tasks	- simple "how to do" leaflet - simple tools for domestic shallow well construction and maintenance	- advice and support by community worker - appropriate use of mass media to provide technical messages	- neighbourhood support in family well con- struction or in- house plumbing, as appropriate  - procure and make available to family durable vessels for water transportation an storage
			c) construction or improvement of private system Organization and Maintenance (OSM)					
		, * · · · · · · · · · · · · · · · · · ·	a) procurement of adequate quantity of safe water, b) assistance in Oam				To glas	
			of improved water supply including household and con-sumer payments,			V		
		2.2.0	c) avoiding unneces- sary wastage of water.					: :
		2.2 Communal	Construction  a) participation in planning, design, site location of simple technology water systems	Community Worker	- preferably literacy; - ability to understand manuals/guidelines	- for household piped con- nexions some special tools for use by com-	- provision of and updating manuals;	
			b) organize community labour and material contri- bution  c) construction and	Community Development Committee Volunteer	- construction and mechanical skills;  - ability to do "design" of simple water supply systems and understanding of	munity workers or local operators; - manual of stan- dard designs suitable for	and training from next higher level; - assistance in obtaining material	
			upgrading of simple communal water supply systems		viable options; - basic organizational and teaching skills;	community use;	support.	

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2. Supply of drinking water (cont.)		Organization and Maintenance (06M)  a) assisting in 06M of improved water supply  b) avoiding unneces- sary wastage  c) organization of systems for col- lection of tariffa		- simple accounting skills; - ability to detect maintenance needs; - appreciation of value of preventive maintenance - ability to establish community needs and convey request for necessary assistance	- procedures or forms for requesting assistance from lst ref. level - tools and materials for construction operation and maintenance		
		d) paying caretaker/ operator e) paying electricity or fuel if appro- priate					
		f) submit request to government for assistance impro- vements/major maintenance					
2.00		g) training of community workers in O&M for simple systems	Health Worker from first health facility				
	2.3 First Health Faci- lity	a) providing advisory service to individuals and groups b) supply of simple spare parts c) providing intermediate level maintenance d) providing intermediate level training e) surveillance of technical features and sanitary inspection	Health workers (mid- wife, nurse sanitary in- spector) Water Agency technicians Voluntary workers	as above in 2.2 plus:  - ability to appreciate technical and organizational needs of communities  - ability to supervise and teach skills required in the community  - ability to provide more sophisticated repairs, maintenance, residual chlorine testing on request and routinely;  - basic accounting and record keeping skills	- standard design and repair manuals; - special tools; - repair shop for special repairs of simple and routine repairs of more sophisticated systems; - residual chlorine test kit	- provision and updating manuals, supervision and training from 2nd referral level - store house space and stores to supply communities - access to advice on water supply technology, system groundwater information	- information on the needs and resources supplied by community worker, community leader and community meetings for construction, operation and maintenance of their water supply system.

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Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2. Supply of drinking water (cont.)		f) assist in organiza- tion of O&M system and disinfection (as needed)	·			- water quality testing facilities	
		to community and 2nd ref. level			*		
	2.4 First Referral Level (public health team or sanita- tion head- quar- ters at district level)	a) advisory service b) major maintenance c) supply of major spare parts d) supervision e) water quality surveillance f) training	Public Health/ Medical Officer and Senior Health Workers (P.M. nurse, sani- tarian and other health workers) Water Agency technician District	as above in 2.2 & 2.3 plus:  - specialized maintenance, repair and construction or drilling knowledge and skills quality surveillance specialized water and control knowledge and skills	- specialized tools and equipment; - storage of pipes, numps, etc manuals/guide- lines; - standard report forms;	- access to pro- fessional advice on wate supply, ground water informa- tion, choice o appropriate te- nology, and of supply; - procurement; - transportation	f ch=
	lever	g) liaison with central government for funding	Office		- water quality testing kit	- training;	
3. Excreta Disposal	3.1 Home	a) seek advice on most appropriate local method b) construct suitable privy - possibly with help from neighbours	Family members Neighbours	- appreciation of need for performing tasks - general health and hygiene knowledge - ability to construct a privy, with minimum	- simple "how to do" leaflet when appli- cable; - hand tools; - slabs, bowls,	- support and guidance of community worker in design and maintenance; - funding assis-	- organize cooperative action to design, obtain local materials to construct and upgrade privies with neighbourhood, youth and
		c) use of privy d) keeping it clean		guidance  - basic knowledge of appropriate method of insect and rodent	water seals, and other appliances as appropriate	tance for expensive materials	other local groups - demonstrate priv construction and
		e) discourage insects and rodents from feeding and breeding in area of privy		control		transport of heavy materials - appropriate	maintenance in public place and by the committee members
		f) empty (or re- locate) privy when it is full g) continued up-				use of mass media to provide technical messages	- provide sanction and incentives to encourage clean- liness
		grading of sani- tary facility according to available water supply and family income					

THE ELEMENT NO. 3 (C							rage
Activíties	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3. Excreta Disposal (cont.)	3.2 Communal	a) building school - market latrinea/ privies and pub- lic comfort station (where family privy not possible) b) obtain and trans-	Community Worker Community Development Committee	- preferably literacy; - ability to follow a standard design manual and adapt a design to local con- ditions and resources - ability to organize	- hand tools; - materials not locally available	- designs; - super- vision; - training; - access to vehicle	
		port from next level (3.3) the essential but non- indigenous materials (con- crete slabs, rein- forcement bars, etc.)		communities and obtain support from lst ref. level		for obtaining heavy material; - support by mass media and audiovisual aids	
	3.3 First Health Faci- lity	a) technical advisory aervices to the "Community Development Committee" and/or community health worker	Health Workers (mid- wife, nurse, sanitary in- spector) Voluntary workers	- knowledge of general sanitation, health education and simple sanitary engineering - ability to supervise, train and organize	- tools for demonstration; - report forms and procedural manuals;	design up- dating guidance, monitoring, supervision and training	
		b) introduce/demon- strate/train, techniques		- ability to do accoun- ting and book/record keeping	- audio visual materials	transporta- tion, i.e. motorized or bicycles	
		c) obtain and store for community collection the materials not available locally				- some fun- ding assis- tance to support task e)	
		d) construction and maintenance of demonstration latrine for use in health posts) centres				- storage facilities	
		e) obtain financial support for family and community, as appropriate					
		f) arranging inter- village visits g) progress reports to community and to higher levels					

Activ	ties Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3. Excret Dispos	al Refer- ral Level (public health	a) training, provision of training aids and demonstrations for health workers	Medical officer and senior health workers (P.H. nurse, sani-	More knowledge of above in 3.3 plus:  - ability to develop simple guidance materials	- manuals/guide- lines; - stores of con- struction material and	- procurement - transportation - financial assistance	
	sanita- tion head- quarters at dis-	b) devise and adapt technical advice and guidance materials for use by health facility staff	tarian and other health workers) Water Agency technicians	- ability to monitor and evaluate the programme	tools to be used by 1st ref. level - report forms	- training - information - guidance and	
	trict level)	c) ensuring that con- tracts are placed with local produ- cers for materials not available at			- training and audio visual materials	supervision	
		viliage or health facility level  d) funding some pro- portion of mate- rials supply costs on a temporary					
		basis (where com- munities require subsidy and funds are available)  e) organizing competi- tions			er i i i i i i i i i i i i i i i i i i i	63 44	
		f) supervisory visits to health facili- ties and communi- ties					
		g) reporting, moni- toring and evalua- tion					
4. Protect of Wat Source Survei of Dri Water Qualit	er 8 and 11ance nking	a) keeping waste disposal away from water sources b) use of sanitary excreta and waste disposal facilities	Family members Neighbours	<ul> <li>appreciation of need for performing tasks</li> <li>basic knowledge of health, sanitation and communicable diseases transmitted by water</li> </ul>	- health educa- tion material - simple "how to do" leaflet	- advise on remedial action required - appropriate use of mass media to provide techni-	- prevent community waste disposal upstream of sur- face water source - promote proper latrine construc- tion at a safe
		c) keep people and animals from con- taminating water sources				cal messages	distance (surface water) or height above water table (ground water), from water source.

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
4. Protection of Water Sources and Surveil- lance of Drinking Water		d) protection of family well by providing cover (with handpump, if affordable)	15				
Quality (cont.)		e) for rain water sources, clean roof, container and filter if possible,					
		f) seek advice of health/com- munity workers on above tasks as needed.		•			
	4.2 Communal	a) locating ground— water supplies away from areas where water is or can become unsafe for drinking  b) install surface water intake in location safe from contamination	Community Worker Health Volunteer Community Development Committee	as above in 4.1 plus:  - preferably literacy;  - knowledge of community hygiene hazards and preventive measures  - basic knowledge of community development	as above in 4.1 plus: - simple tools/ materials for construction and maintenance of water supply and excreta disposal	- training - supervision - health education by means of posters, media, films and group meeting	
		c) install fencing or other means of isolation of water from contami- nation by people, animals and wastes d) install communal		and communication techniques  - understanding of basic appropriate techniques of water supply and sanitation	- guidelines/ manual		
		handpumps, well covers, or clean buckets for wells  e) periodic sanitary survey to ensure installations are protected		- organizational skill - basic skills for construction using indigenous materials and for installation and maintenance of simple devices, i.e.			
		f) locate and main- tain waste dis- posal facilities (e.g. privies dumps) where they are not liable to contaminate water source		hand pumps			

	Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
4.	Protection of Water Sources and Surveil- lance of Drinking Water Quality	4.3 First Health Facility	selection and pro- tection for com- munities	Health Workers (mid- wife, nurse, sanitary inspector) Voluntary workers	Broader knowledge of above in 4.2 plus:  - ability to communi- cate, train, and support the tasks required at home and	as above in 4.2 plus: - map showing location of houses, water sources, road,	as above plus: - supplies from first refer- ral level - transportation	
	(cont.)		b) simple inspection and testing of water quality of community water supplies c) training of res- ponsible person in the community		- basic understanding of the significance of water analysis results - basic understanding of corrective	privies, etc.  - chlorinated lime  - simple chlorine residual test kit		
			for his water source protection and quality sur- veillance duties d) review of results of community sani- tary surveys and		measures	- water sample bottling		
			advise on correc- tive measures to be taken  e) obtain water samples for analysis and dis-					
			patch them to laboratory; advise on any corrective measures if re- quired as indica- ted by analytical results					
			f) progress reports to community and first referral level		• • • • • • • • • • • • • • • • • • •			
		4.4 First Refer- ral Level (public health team or sanita- tion head- quar- ters at district level)	selection of drinking water sources for local use, b) training of health facility and com- munity level per- sonnel in protec-	Public Health, Medical officer and senior health workers (P. H. nurse, sanitarian and other health workers) Lab. technician Water Agency technician	More knowledge of above in 4.1-4.3 plus:  - ability to plan, organize, train and supervise lower level health workers, volunteers;  - ability to develop simple guidance materials;  - ability to monitor and evaluate the programme	as above in 4.3 plus:  - simple water examination;  - laboratory equipment and reagents;  - forms for sanitary survey;  - forms for reporting result of laboratory test;	tion material;	

Ac	tivities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equip <b>ment</b>	logistic support	Community support
an 1 a Dr	rotection of ter Sources d Surveil- unce of inking ater Quality		c) participation in land use planning to avoid water source contamina- tion			- training materials	- health educa- tion via mass media (radio TV and news- paper);	
	ont.)		d) provision of basic laboratory ser- vices for water quality testing				- training facility;	
			le) report, monitor and evaluate water quality sur- veillance and source protection programme,			in the second		
			f) supervision.					
ot la	ther rela-	5.1 Home	a) regularly cleaning household area of breeding and har-	Family members	- general knowledge of hygiene education;	- simple "how to do" leaflet; - where affor-	- training and demonstration;	- demonstrate in local schools or other community
(1	This sec-		bourage of flies and disease vec- tors,  b) deposition of		- knowledge of appro- priate methods of dwelling upgrading and parallel con- struction skills;	dable, sprays or netting; - building tools	- design assis- tance; - a referral advice	buildings, con- struction and use of family gardens, fish farms, bio- gas and compos-
ti ta po	ies and isks that ositively Efect pro-		solid waste in allocated areas and cleaning of drains around		- knowledge of locally appropriate methods of improving family	and materials for house im- provements;	service; - provision of non-local	ting latrines;  - set aside area for solid waste dis-
ot to in	rammes of ther sec- ors, e.g. n agricul-	·	house, c) self-help dwelling improvements in		gardens and fish ponds.	- hand tools and planting material; - appropriate	building materials, seeds, plants and fish fry.	posal; - adult/literacy programme.
ho wh pa	ousing, sile being i art of an		association with vector control and water/sanitation upgrading,			materials for linked sani- tary biogas and fish pond con-		
πιθ	ental health cogramme)		d) planting family garden and irri- gation with excess/waste water	1		struction.		
			from domestic water supply system,  e) use of resource			v v v		
			recovery from waste disposal (e.g. com- posting, biogas, fish farms).					

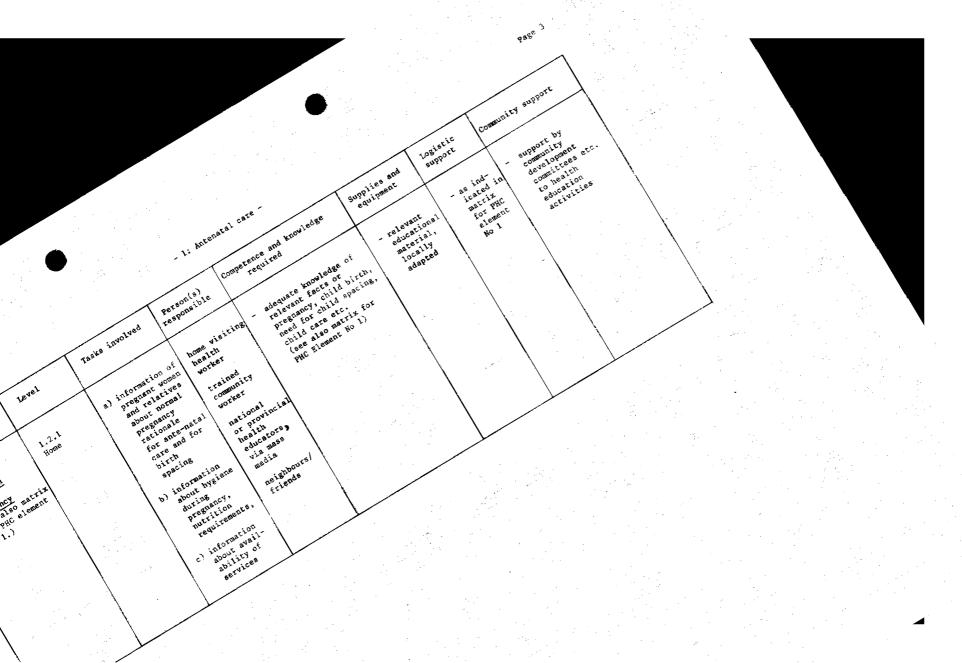
Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
Linkage with other rela- ted aectors (cont.)	5.2 Commu∼ nal	a) community action to construct and clean drains and dispose of solid waste (especially where there is a piped water	Community worker Local skilled worker Water Agency	as above plus:  - knowledge of drainage construction;  - knowledge of metal and fitting;	- hand tools for drain construction; - appropriate community solid waste vehicles;	- support structure for linked family; - nutrition; - farming;	
		b) organization of community vector, fly and rodent control,	Volunteer.	- for solid waste dis- posal some knowledge of community or cooperative organi- zation and management.	- hand tools and blacksmith equipment or welding equip- ment as appro- priate and available	- dwelling; - sanit. improvements; - community artisan sup-	
		for water and sanitation systems in small work-shops or garages,  d) organization of community, cooperative or other self-help dwelling improvement projects.				port structure.	
	5.3 First Health Facili- ty	a) motivate community organizations to activities linking with other related sectors matching expressed needs, b) train and supervise community level workers for inter-sectoral action,	Health workers (mid- wife, nurse, sanitary in- spector) Voluntary workers.	Broader knowledge of above plus:  - competence in community organization and other activities of related sector and problems.	- manuals/guide- lines; - tools and materials for inter-sectoral activities.	as above at first referral level, coming either through health services or other departments coordinated locally.	
		<ul> <li>c) assist communities in designing and building community intersectoral facilities,</li> <li>d) manufacture parts for water and samitation systems in small workshops</li> </ul>					
	Linkage with other related sectors	Linkage with other related sectors (cont.)  5.2 Communal  nal  5.3 First Health Facili	Linkage with other related sectors (cont.)  5.2 Community action to construct and clean drains and dispose of solid waste (especially where there is a piped water system).  b) organization of community vector, fly and rodent control,  c) repair of parts for water and sanitation systems in small workshops or garages,  d) organization of community, cooperative or other self-help dwelling improvement projects.  5.3 First Health Facility  ty  5.4 First Albert Health Facility  c) repair of parts for water and sanitation systems in small workshops or garages,  d) organization of community, cooperative or other self-help dwelling improvement projects.  5.3 First Albert Health Facility  c) assist community level workers for inter-sectoral action,  c) assist community level workers for inter-sectoral action,  c) assist community inter-sectoral facilities,  d) manufacture parts for water and sanitation systems in	Linkage with other related sectors (cont.)  5.2 Communated sectors (cont.)  a) community action to construct and dispose of solid waste (especially where there is a piped water system),  b) organization of community vector, fly and rodent control,  c) repair of parts for water and sanitation systems in small workshops or garages,  d) organization of community, cooperative or other self-help duelling improvement projects.  5.3 First Health Facility  ty  5.4 First Health Facility organizations to activities linking with other related sectors matching expressed needs,  b) train and supervise community level workers for inter-sectoral action,  c) assist communities in designing and building community intersectoral facilities,  d) manufacture parts for water and sanitation systems in	Linkage with other related sectors (cont.)  a) community action to construct and clean drains and dispose of soil dwaste (especially where there is a piped water system),  b) organization of community vector, fly and rodent control,  c) repair of parts for water and sanitation systems in small workshops or garages,  d) organization of community, cooperative or other self-help dwelling improvement projects.  5.3 First health fractii- ty with other related seaters matching expressed need;  b) train and supervise community level workers for inter-sectoral action,  c) assist communities in designing and building community inter-sectoral for water and sanitation systems in succommunity it is,  d) manufacture parts for water and sanitation systems in succommunity inter-sectoral facilities,  d) manufacture parts for water and sanitation systems in succommunity inter-sectoral facilities,  d) manufacture parts for water and sanitation systems in succommunity inter-sectoral facilities,  d) manufacture parts for water and sanitation systems in	Linkage with other relation to construct and clean drains and dispose of solid waste (especially where there is a piped water system),  b) organization of community vector, fly and rodent control,  c) repair of parts for water and sanitation of community corperative or other self-help duelling improvement projects.  5.3 First Racitity or activities linking with other related sectors matching expressed needs, b) train and supervise community level workers.  c) respair of parts for inter-sectoral action.  c) community condent community community community community comperative or other self-help duelling improvement projects.  b) train and supervise community level workers for inter-sectoral action.  c) assist community.  c) community community community organization and management.  community condent community organization and management.  sequipment community inter-sectoral action.  c) community as above plus:  water Agency technician  b) organization of community organization and management.  water Agency technician  b) organization of community organization and management.  community worker (sidworkers (sidworkers (sidworkers (sidworkers (sidworkers)) and the activities of related sector and problems.  competence in community organization and other activities of related sector and problems.  competence in community organization and other activities of related sector and problems.  community organization of community organization and other activities of related sector and problems.	Lithage with other relation to construct and the rectors (cont.)

	Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
5.	Linkage with other related sectors (contd.)	5.4 First Refer- ral Level (public health team or sanita- tion head- quar- ters at dis- trict level)	a) supervise and train train existing local officers to inter-sectoral activity promotion, b) monitor and evaluate activity progress in area of responsibility c) manufacture parts for water and sanitation systems in small workshops or plant (less simple technology and lower transport cost).	Medical officer and senior	as above in 5.1-5.3, at professional level - especially courses in rural development, artisan and small industries and urban policy.	as above plus:  - heavy equipment and special tools and machinery in rural areas, frequently made available for low rental in multipurpose repair workshops.		

## - 1: Antenatal care -

	Leve)	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic Support	Community support
1.1 Early diagnosis of pregnancy and screening for risk cases	i.i.1 Home	a) recognition of signs and symptoms of pregnancy b) information about services	woman herself husband relatives	- knowledge about pregnancy symptoms, risk factors, nutritional needs during pregnancy, availability and accessibility of health services	~ relevant information material on pregnancy symptoms, risk factors in	- facilities for health education classes	programmes for adults and health aducation
		available and referral of woman to	neighbours & self help groups in the		pregnancy, etc		in schools, churches, mosque, etc.
		nearest health services or health worker	trained				training of community Volunteers for
		c) detection of risk factors	workers			*	health education activities
		using defined criteria, including				-	public transport services
		nutritional and socioeconomic family history				-	development of outreach programmes for
		d) influencing women at risk to seek adequate					special risk groups, e.g. factory workers
		care (including) delivery at health centre or hospital).				-	inclusion of information about
		mospitali,				·	risk pregnancy in training of workers from sectors
						ſ	health insurance schemes or equiv-
						i	alent support scheme for families

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1.1 (continued)  Early diagnosis  of pregnancy and screening for risk cases	1.1.1 Home (continued)	a)-d) as above, also physical examination of woman  e) planning for care of risk pregnancies, including booking for delivery  f) adequate supportive therapy (e.g. iron, nutrition supply)	home visiting midwife traditional birth attendant, trained TBA other trained traditional workers or volunteers	early signs of pregnancy and risk factors in pregnancy - practical skill in screening for high risk - knowledge about appropriate referral	- audio visual information  - check list simple manual for risk screening  - essential supportive drugs	- antenatal records - referral system - transport for home visits	- facilities for front-line workers - encouragement of training for TBAs etc support from community development committees, women's clubs similar bodies
	1.1.2 First Health Facility	a)-f) as above for women presenting directly for care g) screening of referred cases and referral of those needing special care h) supervision and training of health workers and community workers	nurse/midwife medical assistant	- adequate theoretical and practical skill as above	- manual for risk screening - equipment for examinations - essential drugs	- antenatal records - referral system - transport facilities for supervision, etc.	- assistance with transport facilities - health insurance schemes as above
	1.1.3 First Referral Level	a) management of pregnancy and delivery of referred cases b) supervision of work at health centres c) short refresher training activities for field staff	physician nurse- midwives	- adequate obstetrical skills and recognition relevant risk factors	- adequate obstetrical equipment including facilities for obstetric intervention - essential drugs	- record systems - management of supplies etc stores - transport	- public transport  - provision of facilities mear hospital to accommodate "at risk" mothers and their infamous referred on one start of labour health insurance schemes, as above



. Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1.2 (continued)  Health education during pregnancy	1.2.2 Communal	a) planning health education activities for pregnant women in community	CHW  nurse/mid- wife or other health workers	- As in 1.2.1 above  - skills in planning and conducting health education classes	- appropriate audio visual material locally adapted	- see matrix No. 1	- support by community development committee
		b) development of intersectoral programme	working in the community	- skills in teaching communication skills			and availability of films, TV, etc
		activities for pregnant women in special risk groups like mig-	chairman of Community Development Committee	<ul> <li>skills in producing and/ or using audio visual material and equipment</li> </ul>	- **		- participation from other sectors (selvool, church polyse, etc.)
		workers etc.  c) implementing such programmes	other community leaders workers from				including:
		(see matrix No 1)	other sectors such as education, social welfare				programmes, and b) dialogue with health sector planners and
	and the second						mass me health education programmers
							- involvement of local Women's Groups, Youth Associations, Cooperatives etc.

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
.2 (continued) Health	1.2.3 First	a) - d) as in 1,2,1 above	nurse/midwife or other	- as in 1.2.2	as in 1.2.2	as in 1.2.2	
education during	Health Facility	e) training of	categories as requested	· · ·		- supervis- ion and	
pregnancy		community volunteers and and workers from				support from Dist- rict	
		and workers from other sectors in health			1.3	Health Office,	
		education for pregnant				health education	
		women  f) participation	in a second	e de la companya de La companya de la co		unit	
		in 1.2.2 above					
	1.2.4 First Referral	<ul> <li>a) information on post partum period,</li> </ul>	ward sisters physicians	- as above in 1.2.2	- AV equipment and material including	- as in 1.2.3 above	
	Level .	hygiene, nutrition, breastfeeding,			posters and pamphlets		
		family planning availability					
		of services b) information					
		about newborn care and infant		,			
		nutrition, availability of services					
		c) participation					
	}	in activities in 1,2.3 (e)				<b>\</b>	1

" Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1.3 Basic antenatal care (see also matrices	1.3.1 Hom:	a) motivation of woman to seek care	woman herself	- knowledge as in 1.1.1 and 1.2.1 above	- nutritional supplies, essential drugs as	- public transport facilities	- education and motivation through community health education
for PMC elements nos. 2 and 5)		b) monitoring of self-care	relatives		prescribed	- if applic- able home-	activities as in
		(nutrition, hygiene)	neighbours and local self help groups			based Antenatal records	- support to working pregnant
		c) monitoring of antenatal visits and drugs as	trained community				women to reduce workload
		prescribed	worker				- housing schemes
							regulations on maternal benefits
		d) history taking	trained TBA	- adequate knowledge about	- manual or	- record	- selection of TBAs
		and examination at each visit	home visiting midwife	normal pregnancy and about complications and risk factors	checklist- for ante natal care	system and files, if applicable	workers for training
		e) planning and managing normal pregnancy until	or nurse aid if applicable	- practical skill in history taking, physical	- minimum equipment	home-based records	- support by Community
		delivery  (f) detection and	other CHW	examinations and vaccination	for examin- ation, depend- on resources	- transport for home visits	Development Committee
		management of risk cases and complicated		- practical skills in record keeping and use of records, including	- essential drugs, vac-	- referral system	
		pregnancy, including refer- ral (see 1.1.1		simple systems for non- literate workers	cines, nutrition, supplies		-54 -12
		& 1.1.4) g) giving individ-		- preferably basic literacy	- vaccination kit if		
		ual health education and supportive nut-			applicable		
	: .	ritional therapy and advice					
144 (1) 1 (1		h) carrying but tetanus immunization				1	
		of pregnant women					
		i) record keeping					

## - 1: Antenatal Care

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1.3 continued Basic Antenatal Gare	1.3.2 First Health Facility	a) - f) as above g) supervision and training of community workers and health workers	nurse or midwife	- as above - practical skill in supportive techniques for supervision of health workers	- as above in 1.3.1 dependent on resources and level of training of responsible health worker	- as above in 1.3.1	- availability of public transport or other transport for referral cases
					- laboratory equipment for testing of at least Hb and albumin in urine		
	1.3.3 First Referral Level	as in 1.3.2 above	as in 1.3.2 above	- as in 1.3.2 above	<ul> <li>as in 1.3.2</li> <li>above</li> <li>Iaboratory and basic X-ray</li> <li>equipment</li> </ul>	- as in l.3.2 above	- as in 1.3,2 above
1.4 Detection and management of pregnancy complications (see also matrix for PHC Element No. 2)	1.4.1 Home	a) detection of signs of abnormal pregnancy or of malnutrition or disease complicating pregnancy b) contact with front-line health worker or health service unit c) following treatment prescriptions	woman herself family members trained community volunteers or self help groups workers from other sectors (social workers, teachers, police, etc)	of abnormal pregnancy	- educational material as in 1.2.1 - essential drugs, diets	- availab- ility of transport - assistance with care for other children	- as above under 1.1.1, and assistance with transport - health insurance schemes as above in 1.1.1 - when needed direct assistance to family during sickness period, economic or man- power or both

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
4 continued Detection and	1.4.1 Hone:	d) diagnosis of abnormality	trained TBA	- as in 1.3.1 above	- essential equipment and	- transport facilities	- assistance wit transport for
management of pregnancy complications		by history and examination	community health worker	<ul> <li>knowledge of which cases should be referred</li> </ul>	drugs for emergency treatment	for emergen- cies	emergencies - selection of
Complicacions		e) assessment of underlying	midwife or other house-	<ul> <li>knowledge of appropriate emergency treatment</li> </ul>	- manual	- 24 hours	community work
		nutritional status,	visiting health worker	- knowledge of referral	for emergency treatment	availabil ity of	
		supportive therapy if required		possibilities and appropriate management of referral		health worker	
		f) initial treat-				- record	
		ment and observation, if				5,546.5	
		complication is manageable at front-line,					
		otherwise					
		appropriate referral					
	1.4.2	a) As above in	nurse-midwife,		- as above,	- as above	- as above in 1.
	First Health Facility	I.4.1 b) initial treat-	medical assistant or physician,	appropriate for category of worker	dependent on resources for health	in 1.4.1	- health insurer
	Facility	ment and observ- ation or emerg-	as available	- skill in supervision as above in 1.3.3	services	space	in 1.1
	·	cy treatment and referral if need for			- laboratory equipment as in 1.3.2	- laboratory space	
		hospitalization				- beds for observation	
		c) when complication cured or					
		controlled, adequate follow-up			2.3 x 3.		
	1.4.3 First Referral	a) diagnosis of complication	physician and other members of hospital	- as above in 1.4.1, appropriate for category of worker	- full equipment for emergency treatment,	as above in	- facilities for transport
	Level	b) emergency treatment and curative treat-	team	- skills in supervision as above in 1.3.2	including obstetric surgery		<ul> <li>health insuran schemes as abo in 1.1</li> </ul>
		ment after hospitalization			- clinical and laboratory	*1 .1	
		c) referral to 2) after cure and			facilities including		
		feedback information			X-ray and blood		
		d) supervision and	*		grouping	4.1	1.31. 1.4.
the second second second		continuous tra- ining of workers	, -		- blood bank if appropriate	ļ <sup>1</sup>	

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2.1 Management of normal delivery	2.1.1 Home	a) identification of start of lab-	woman herself	- psychological preparation of woman for delivery	- clean room	- 24 hours availab-	- provision of community based
and detection of complications		our (including time of onset)	family members neighbours or	and for newborn baby	- clean water	ity of birth	trained birth attendant or mi
(see also matrix for PHC Element		b) contacting birth	trained	- knowledge about delivery process and how to	- water boiler	attendant	wife
No. 5)		attendant (professional	worker	recognize onset of labour	- bowls	- assistance with care	community work
		or trained)	N .	- knowledge of requirements	- clean clothes for baby	of other children	for supportive activities
	!	c) preparing home		for home delivery	201 000,		including pre-
11		for birth		- knowledge of availability		- health ed- ucation	paration of wor and home for c
		d) attending to woman during		of midwife or TBA		classes for	birth
	·	labour and assisting				pregnant women	- support scheme for maternity
en e		birth attendant		The state of the s		- availabil-	leave
		e) attending to newborn				ity of emergency	other support
•		newsorn				transport	cooperative in
			1			 	family welfare
				1	1		
		f) recognition of onset of labour	trained TBA	- adequate knowledge of normal labour and delivery and signs of	- midwifery kit (UNICEF, simplified	- transport for home delivery	- provision of transport for midwife and
	1	g) evaluation of	midwife	complications	TBA kit or		emergency
	: ~ `	progress of labour	performing home delivery	knowledge of emergency	or equivalent)	system,	transport
		h) recognition of		treatment appropriate for front-line worker	- essential drugs,includ-	including	- remuneration for births
		early signs of		and of when to refer	ing active	death	recorded, if
		complications like prolonged		- practical skills for	traditional	register reports	applicable
		labour, fetal distress etc.		normal delivery care and for management	drugs or herbs	- referral	- support from community
		i) monitoring	. 4	of complications	- birth register reports	system, including	development committees
		complications,		- appropriate skills in		emergency	COMMITTEES
		including referral if	100	record keeping and reporting	- simple manuals on management	transport	
		required and and feasible		preferably basic literacy	of most common	4	
				preferably basic literacy	problems		
		j) monitoring 2nd and 3rd					<b>1</b>
		stages of delivery		•			96

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2.1 continued  Management of normal delivery and detection of complications	2.1.2 First Health Facility	a) emergency assistance to frontline worker by home visit or by admitting complicated cases b) appropriate management of complication, including post- natal care c) supervision and continuous training of frontline health workers giving delivery care	nurse/ midwife or other competent staff on duty	- adequate theoretical and practical obstetrical knowledge and skills - skills in supervision as above in 1.3.2	- obstetrical equipment as appropriate manual and management of obstetric problems - essential drugs - laboratory equipment as appropriate	- delivery room - laboratory facilities - emergency transport and referral system record systems	- provision of lodging for mother and family members before start of labour, (mother's
	2.1.3 First Referral Level	As in 2.1.2 above, a-c	physicia , nurse/midwife	- as in 2.1.2 above	- as in 2.1.2 above - surgical equipment	- as in 2.1.2 above - surgery facilities	- as in 2.1.2 above

Activities	Level		Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2.2 Management of risk cases in labour and complicated cases	2.2.1 Home	case woman pregnancy to plan delivery in health centre or hospital b) arrangement of	woman herself family members neighbours trained community	<ul> <li>appropriate knowledge         about risk factors and         signs of complications</li> <li>knowledge of availability         of appropriate health         services and of health         workers</li> </ul>	- as in 2.1.1	- as in 2.1.1	- assistance with transport for woman in labour - assistance to family while woman is away from home
		soon as labour starts, in booked cases  c) if this is not possible, notif- ication of front- line health worker  d) in case of referral for complications,	workers				
		and decision on need and feasibility to refer her	trained TBA midwife	- adequate theoretical and practical obstetrical skills - knowledge about referral	- as in 2.I.1	- as in 2.1.1	<ul> <li>assistance with emergency transport</li> </ul>
		f) if appropriate, arranging referral g) as in 2.2.1 (d) above h) if referral is not possible prevention of aggravation of condition and treat- ment of complication		possibilities and when to refer cases  - appropriate skills in record keeping and recording			
		according to resources e.g. manual removal of placenta i trained					

Activities	Leve1	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2.2 (continued)  Management of risk cases in labour	2.2.2 First Health Facility	a) admission of referred cases, diagnose complications and decide on management b) treatment of complication and deliver patient c) if required referral of patient to hospital, arrange safe referral	midwife, medical assistant or other compet- ent staff on duty	- adequate theoretical and practical skills deliver patient	- as in 2.1.2	- as in 2.1.1	- assistance with emergency transport
	2.2.3 First Referral Level	a) - b) As above  c) referral of patient back to health centre after delivery  d) supervision of health worker's performance and arrangement of training as appropriate	physician in charge	- as above in 2.2.2	- as above in 2.2.3	- as above in 2.2.3	

Activitie <b>s</b>	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2.3 Management of newborn after delivery (see also matrix for PHC element No. 2)	2.3.1 Home	a) providing clothes and other needs for baby  b) teaching mothers of first babies to breastfeed and care for infant	woman herself grandmother or other family member neighbours or local self help groups	- knowledge about needs in newborn period - practical skills in care of newborn	- baby equipment as appropriate - water and soap	- health education classes, mass media programmes for women	- assistance with care of other children - if needed, socia- economic support to family - training programmes for
			trained community workers				community workers
		c) cutting and dressing cord	trained TBA midwife	- adequate knowledge of newborn period, including detection and management of	- instrument and dressing for cord	- as in 2.1.1	- assistance with transport
		mother and child for signs of complicat- ions	if appropriate community health worker		- portable scale if appropriate - BCG vaccine		
		e) if feasible, weighing of baby f) if referral necessary		- knowledge of hygienic procedures for cutting cord	and syringe if appropriate - appropriate		
	   1   3	preparation of mother and baby for trans- port, arrangement for transport			equipment for clearing of airways, etc.		
		g) if health status normal, giving child normal care and prep- aring home giving			- essential drugs - manual for care of new-		
		mother advice  h) follow-up visits to check on health			born		
		status and give mother health education and information on breastfeeding,					
		BCG immunization  i) reporting of birth and of maternal or perinatal death					

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2.3 continued  Management of newborn after delivery	2.3.2 First Health Facility or First Referral	referred cases, diagnose and treatment of complication	nurse/midwife, physician, medical assistant, or other competent	newborn period, diagnosis and management of complications and conditons	- appropriate equipment for diagnosis and treatment of neonatal problems	- facilities for care of newborn - record systems	
	Level	b) screening for other conditions and mal- development, appropriate management of these	staff	- skills in supervision as above in 1.3.2	- essential drugs - manual for management of problems in the neonate	- transport for referrals	
		c) giving appropr- iate vaccinations			: :		
		d) information to mother at discharge about condition and plan for followu					
		e) feedback inform- ation to front line worker					
		f) supervision of performance and continuous training of health workers			· · · · · · · · · · · · · · · · · · ·		

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Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2.4 Basic care of newborn and mother during	2.4.1 Home	a) breastfeeding,     daily hygiene  b) protection from	mother other family members	- adequate knowledge about postpartum period and child care	- additional nutritional supplies ( to mother and/or	- home visit by front line health	- as above in 1.2 health education during pregnacy
post partum period (see also matrices		contagious infections	neighbours		infant)	worker	- support to working woman and families,
for PHC Elements No. 2 and 5)		c) screening for signs of problems	trained community workers		- information material	<pre>- if appl-   icable   home bases   child</pre>	maternity leave.
		, , , , , , , , , , , , , , , , , , , ,				record	} 
		d) home visit for examination and history taking	midwife or trained TBA	- adequate theoretical and practical skills in history taking, exam-	- nutritional supplements	- referral system	- nealth education support (see matrix for PHC
		(if applicable, weighing of child)	CHW	ination of newborns and mother, diagnosis and treatment of complications	- essential drugs	- record system (rossibly	Element No. !
		e) detection and management of		immunization, etc.	- vaccination kit if appl- icable	home base records)	J
		complications and problems including		normal growth and lev- elopment and how to detect deviations from	- portable baby scale (if app	- locally applicable growth	
		teferral if necessary		normal pattern  - practical skills in	licable	charts - transport	
		f) education about breastfeeding, natrition,		in verbal and appropriate audio-visual communication techniques (see PHC	materia:	for home visits	
		family planning,		Element No. 1)	manual for child care		
	-	g) if applicable, immunization (BCG)					
		h) record keeping	-				
	2.4.2 First Health	d)-h) as above in 2.4.1	nurse, nurse/midwife	- as above in 2.4.1	- as above in 2.4.1	- as above in 2.4.1	- assistance with transport for referrals
	Facility	measuring of infant, recording	17.5		- baby scale - basic eqiomen	- referral system	
		weight and height			for routine examination o infant	- record	
					- basic lab- otatory equip	_	
					ment equip	1	

Activities	Leve1	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipmen:	Logistic support	Community support
3.1 Basic child care:  Monitoring of growth and development, screening for risk cases, management of disease or maldevelopment (see also matrices for PHC elements no. 1,2,5,7)	3.1.1 Home	a) provision of appropriate nutrition including grow- ing or purchasing of appropriate diet components  b) development of positive dietary habits, personal hygiene, etc.	mother and father other family members and neighbours, mother's clubs etc. trained community workers	<ul> <li>knowledge about nutrition requirements during growth about normal development and about availability of services</li> <li>practical skills of family members in home agriculture, home economics, preparation of infant foods, etc. as appropriate</li> </ul>	- information material - nutrition supplies, essential drugs	- tran port for me visics of health workers - if applicable home-based child care records	_
		c) provision of adequate stimulation					- agricultural and housing schemes
		d) history-taking for risk factors and examination					
		(trained volunteers) e) informing about					
		availability of child care services and what can be offered there					
		f) planning for care of risk cases, referral	CHW TBA nurse/midwife	- adequate practical skill in examination of children (including	- nutrition supplies, essential	- record system	••••••
		when necessary  g) health education to mothers, including		assessment of growth and development) immunization detection and management of health problems	drugs,vaccines - minimum equip- ment for examinations	system	
		nutrition and child spacing  h) recruitment of cases for immunization		<ul> <li>practical skills in communication techniques, use of AV aids</li> <li>knowledge about</li> </ul>	- vaccination kit, first aid kit		
		programme and if feasible, performing vaccinations		appropriate referral levels			
		<ul><li>i) provision of support- ive nutrition therapy</li><li>j) diagnosis and man-</li></ul>					
		agement of disease and other conditions including emergency- therapy and referral when necessary					

3.1 (continued)  3.1.2 Communal Masic child care Monitoring of growth and food programmes for child material working methods and food programmes for child material particular working woman and storing of working methods and services and anotherities working methods for child material particular working woman and storing of services and account the services and account to services account to services and account to services and account to services account to services and account to services and account to	LEMENT No 4 (continued)	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	support	Community support
3.1.2 Communal Basic child care Monitoring of growth and food programmes for mildren of day care and school independent of disease or mal-development    Description of school health services, and school independent of school health services and school independent of school health school health school in	Activities				- knowledge about the need	<ul> <li>information material</li> </ul>	and stait	makers and
Monitoring of growth and such or interest of working mothers sufficiently and development and invelopment.  Directing for risk street in school health services and school feed programmers authorities woman's authorities woman's acceptance of disease or community volunteers, or other such and community volunteers of the such and community volunteers, or other such as a social content of the such as a soc	3.1 (continued)		1 are 800	Leaders	to support takettee	weidelines for	care.	1-2- America (1)
b) provision of school health services and shool lead programmes associations of school health services and programmes associations of home services by trained community velocities, or school and programmes, or school health services and programmes, or services associations of home services associations of the services of the services of the services associations of the services	Monitoring of	- Common	The children of	1000	i i dede shout growth	l serices, day	school	Samuel Coas of Co
school hearts  pervices and school food programmed  c) provision of home services by strings community voluntaries community voluntaries provision of the price that community voluntaries community community voluntaries community community community voluntaries community commu	development,	::	h) provision of	local social	and development and		arammes,	1
c) provision of home services by trained community voluments, or other marks or o	cases, management		school hearth	authorities	l take of gxisting		ura: prog	armer despirates
c) provision of home services by trained by trained commently voluntaris, or other messarisms.  Provision of total sed emission of local sed emission of the priorities and of distary habits and of distary habits and other sector of the other sector of the sector of th	mal-development		्रहात्यक्षात्रकार्यः । विकासकार्यः	associations				
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Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3.1 (continued)  Basic child care:  Monitoring of growth and	3.1.3 First Health Facility	a) As above in 3.1.1 (f-i) b) laboratory exam	Nurse, Medical Assistant, or other	- as above in 3.1.1 - skills in supervision as above in 1.3.3	- as above 3.1.1 depend- ent on resources	- as above in 3.1.1	as above to 2.4.2
evelopment, screening for risk cases, management of		inacions for HB, malaria smear, etc.	qualified  staff		- appropriate laboratory equipment	space	
disease or maldevelopment		c) initial diag- nosis, treatment and observe on of diseases and other conditions				- beds for observation	
		emergency treat- ment and referral if needed					
		d) adequat Tollow- up of ted or controlled case					
	2.4	e) supervision and continuous training of front-line ealth workers					
	First referral leve	a Lagnosis of disease or condition b) emergency	physician and other members of hospital team	- as above in 3.1.4 adequate practical skills in and theoretical knowledge of pediatrics	- as in 1.4.3 above	- as above in 1.4.3	- as ebove in 1.4.3
		treatment and curative treatment including hospitalization					
		c) feedback to front line workers after cure					

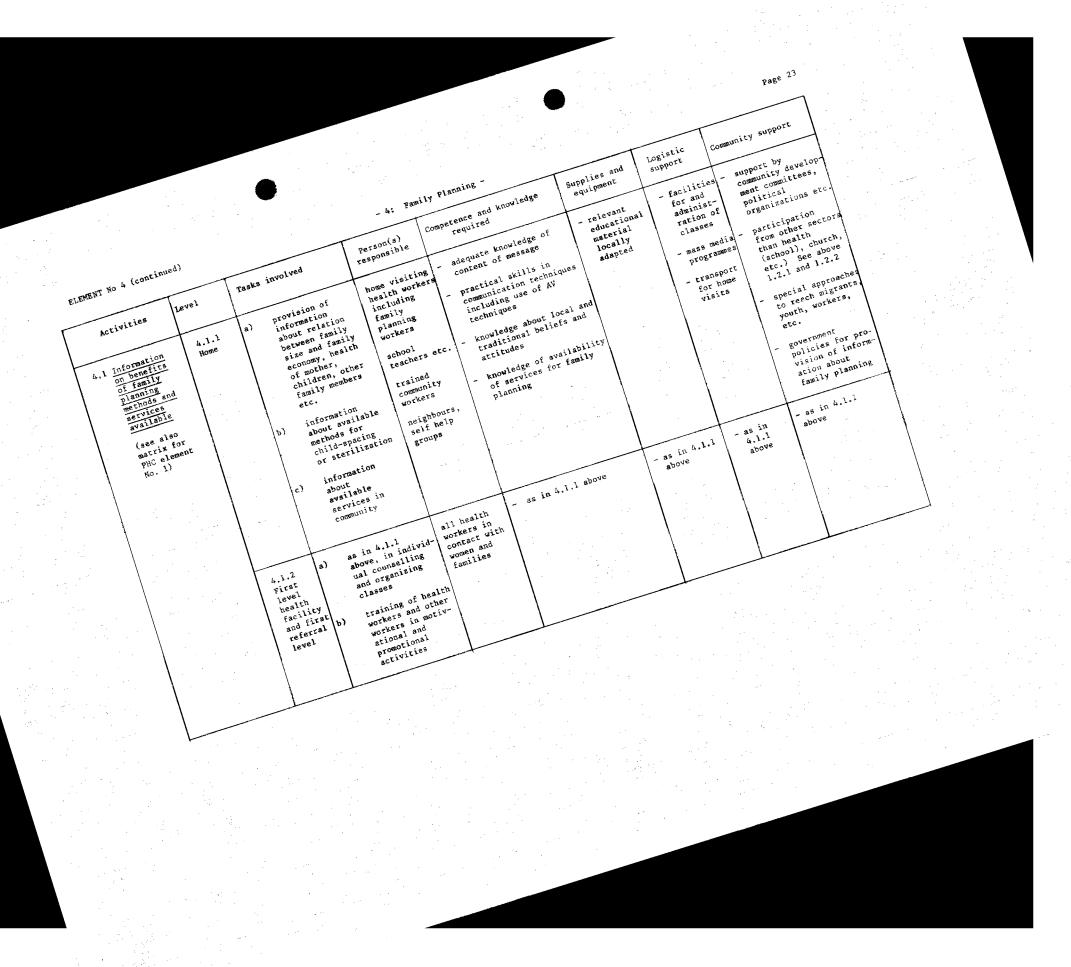
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·	3.2 Prevention of main causes of child	3.2.1		responsible	Competence and know				Page 19	
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Activities Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistia support	Community support
Prevention of main causes of child mortality  5.2.3  Frevention of main causes of child mortality  5.2.3  First alth cilit desert Level (Distri Health Office)	family members b) train family and community	health personnel including sanitarians	- practical skills in communications techniques - adequate and relevant knowledge about public health problems, epidemiology, nutrition problems and about preventive measures - practical skills sanitation work and other preventive technology particularly immunization	including matchil for demonstration of sanitation work  - vaccines, essential drugs - manuals for	- immuniz- ation programme with vac- cination teams, "cold chain" delivery system for vaccines, management support - record and reporting system, including for im- unization	- cooperation in continuous sur veillance of

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Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3.3 Detection and management of social and family problems affecting child health (including disease in family, alcohol abuse, food habits, child abuse, etc.)	3.3.1 Home	a) detection of problem behaviour and taking contact with health or social services b) reorganization of management of home to solve problem or diminish effects c) cooperation with social workers, health workers and others d) detection of family problems affecting children e) information about available	trained traditional	<ul> <li>knowledge of availability of advisory services</li> <li>knowledge of signs of disturbance and of abberrant behaviour</li> <li>appropriate knowledge of family problems and of legal rights and restrictions</li> <li>knowledge about referral possibilities</li> </ul>	- information material	- home visits by health workers and other trained workers  - transport for house visits referral system record system	- day care centres - counselling and advisory service: - intervention by police or social - training of community - outreach programmes for special groups - support from community development committees women's organizations, youth organizations, etc.
		f) support treatment and referral to health services when appropriate g) notification of other services if necessary (police, social worker)					

Activities	*æve1	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3.3 (continued)  Detection and management of	3,3,2 Communal	a) detection of cases or families with	social workers	- as in 3.3.1 above	- information material	- facilities for day- care,	- focal point for social work
social and family problems affecting child health		problem Dehaviour	school teachers			counsel- ling etc.	- channel of com- munication between families
		b) counselling services for family problems,	reilei s Leadors			- referral system	and community, see 1.2.1
		referral for cases needing al care	Police etc.			~ facilities for infor- mation	legislation and legislation for
		c comomic Support to Working mothers	other community members			meetings - access to mass media	the protection of children - drug traffic
		d) intervention	community development commitees,.			programmes	
		els, mass mad a, factories, etc.	women's groups etc.			. 1	
	3.3.3 First Health	a) as in 3.3.1 d)-g) 2b-ye	physician/ medical assistant,	- as in 3.3.1 above	- as in 3.3.1 above	- as in 3.3.1 above	as in 3.3.1 above
ang nguya tang kalamatan nguya. Kanang	Facility or first	the restment of medical problems	nurses and other competent				
	referral level	and follow-up	staff				



Activíties	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
4.2 Identification and management of clients for family planning (birth spacing or limiting, infertility	4.2.1 Home	a) identification of need for child spacing and timing and decision to obtain information and	couple or individual family member relatives and friends, neighbours	- knowledge as in 4.1.1 - knowledge about and skills in use of chosen method	- essential contraceptive drugs or devices - information material	- home visits by health workers - mass media programmes	- information support as in 4.1.1 above - community-based distribution of certain family
management)		method  b) appropriate actions to obtain inform- ation and adopt method	trained community volunteers		- screening lists for contra- indications, complications	health education classes	planning methods
		c) continued use until planning next pregnancy			of pills		- family life education in schools and out- of-school
		<ul> <li>d) if pregnancy does not occur within a year when wanted, contact for infertility investigation</li> </ul>					supportive government policies on availability of family planning
		e) identification of women and men in need of means for birth spacing or infert- ility management. Emphasis on risk groups	traditional healers CHW home visiting	<ul> <li>adequate knowledge about FP methods, mode of use, side effects, etc.</li> <li>adequate practical skill in screening for risks and counselling for choice of method</li> </ul>	- as in 1.1.2 above - simple manual for family planning services	- record system - transport for home- visits - referral	- as in 1.1.2 above - legislation and or regualations on paramedicals on family planning methods
		f) history taking and counselling for choice of method g) provision of method or referral to service unit	midwife/nurse family planning worker if applicable	- knowledge of available family planning services - preferably basic literacy		system	
		h) record keeping and recording					
		<ul> <li>i) follow-up for prov- ision of supplies and counselling about side effects or complications</li> </ul>					

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
4.2 (continued)  Identification and management of clients for family planning	4.2.2 Communal	a) distribution of information (4.2.1 a)-e)) b) community-based distribution of	community- based FP workers e.g. pharmacists, trained workers	- adequate knowledge about FP methods, mode of use, side effects, etc knowledge about available family planning services	- as in 4.2.1 above - screening list for contra- indications to	informat-	- family lits education programmes in schools, and other community
1995年 第1 1975年		supplies if applicable (condoms, chemicals, possibly pills)	school health nurse or school teachers		pills, if applicable	- counsel- ling and other ser- vices for	community
		c) assistance with child adoption to infertile couples d) record keeping	health educators social workers			adoption of child- ren - record files	development committees,etc.  - supportive legislation on information about
e de la companya de l		and reporting				- referral	family planning
	4.2.2 First Level Health Facility	a) As in 4.2.1 e)- i) above for health workers b) if applicable, provision of "menstrual reg- ulation" or	medical assistant, nurse-midwife, physician or other trained health worker	insertion, vasectomy, menstrual regulation, etc. as appropriate  - skill in supervision as	supplies - kits for IUD	- facilities for family planning clinic - referral system	
		early induced abortion services for failure of contraceptive method		in 1.3.3 above	insertion, vasectomy, menstrual regulation, etc. as appropriate	- record system	
		c) history-taking and basic physical examination for infertile couple			- AV information material - manual for management of clients for		
		d) referral of cases for investigation and/or treatment (infertility, tubal ligation, etc.			family planning - laboratory equipment for Hb		
		e) supervision and continuous training of frontline health workers and FP workers	1		examinations		

## - Immunization of women and young children\*

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
. Motivation/education of pregnant women, mothers, and other family members	1.1 Home	a) participation in educational activities or information gathering at community level or in health facilities b) recognition of the need for immunization of children and pregnant women c) recognition of the need for cleanliness durin home delivery to prevent neo-natal tetamus	1	Knowledge of:  which childhood diseases are preventable by immunizing the children  possibility of protecting women and newborn children against tetanus by injection during pregnancy  recommended immunization schedules and where immunization can be obtained	- information material as appropriate		- educational programmes for adults - health education in schools, churches, mosque etc public transport system
		d) motivation/ education of mothers and other members of the community  (see also matrix for PHC elment no. 4, MCH)	home visiting CHW or nurse volunteers	<ul> <li>as above, and knowledge of which vaccines prevent such diseases</li> <li>skills in listening, and leading discussions;</li> <li>skills in communication, counselling and group education</li> </ul>	- appropriate information and AV material	- transport facilities for home visit	- support from Community Development Committee

<sup>\*</sup> Priority given to children 0-1, order of priority for other age groups will vary between countries

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1. (Continued)  Motivation/education of pregnant women, mothers, and other family members	1.2 Pirst health facility	a) motivation/ edudation of individual women attending ante- natal or child care sessions to seek immunization b) planning and conducting heaith education sessions on vaccine preventable diseases, immunization and delivery hygiene	nurse/ nurse/ midwife	- as above in 1.1  - knowledge and understanding of the disease tetanus and how it can be prevented through delivery hygiene  - ability to speak and understand the local language	•	- as above in i.i	
	1.3 First Referral Level (Dist- rict Health Office)	a) production and acquisition of training aids b) dissemination of information on the immunation programme to the public and to the health personnel, e.g. by arranging information campaigns c) supervision of health education activities in 1.2 and training of staff	1	- ability to explain the aims of the programme in a simplified manner; - ability to communciate with influential people of the community (religious, political, etc.) - knowledge of relevant existing training aids in the country and how to use them ability to prepare simple health education material together with health service staff	- AV material - simple equipment for producing graphic material	- mass media support - transport facilties	fields such as: - womens associations, - Red Cross, - Save the Children etc pre-campaign meetings to inform community leaders, politicians, journalists, etc mass-media programmes and campaigns
				health service staff			programmes and

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
Immunization of pregnant women and children	2.1 Home	a) deciding to utilize immunization services	woman herself other family members	- knowledge of; where and when to go for immunization services	- information material	- inform- ation in mass media on sched-	Same as 1.1 above
	•	b) obtaining information about place,	members	- what to do if side effects occur	**	ule for immuniz- ation activities	
		date and time			**************************************		
e e e e e e e e e e e e e e e e e e e		c) attending immunization sessions, also for follow-up					#
		d) appropriate action if side effects occur					
	2.2 Communal	2.2.1 a) planning of immunization	community leaders, social	- knowledge of the Govt. programme for immunization - ability to cooperate and	population of each	- transport facilities for out- reach	Development Committee and
		sessions b) information of the public about time table for	workers school teachers	communicate with Health Service staff in planning - knowledge about the target population in	village - samples of AV material	immuniz- ation team - planning assistance	programme
		immunization sessions c) participation in	CHW s	the community  - knowledge about the community in general	- growth charts - immunization cards	from District Health Office	site for immunization sessions
		immunization sessions in out- reach community	from 2.3	- knowledge of the immunization schedule used in the country		- record	- announcements i mosques, local shops, markets, radio, etc.
		d) reminder to mothers about re-visits as they leave the		- ability to assist in record keeping		-	- if necessary arrangement of accommodation f
e ye e ê		session					team members

<sup>\*</sup> Priority as indicated under 1.

## - Immunisation of women and young children -

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2. (continued)  Immunization of women and young children	2.2 Communai	2.2.2  a) conduct immunizations of children and women  b) record immunizations and submit reports  c) examine and treat cases with side effects or complications	nurse/midwife CHW  if applicable vaccinators in immunization tesms	- as above in 2.2.1  knowledge of contra- indications and ability to screen children and record information obtained  - skills to prepare vaccination equipment and vaccine, to administer vaccine and record immunizations  - knowledge of side effects and complications and how to handle them	- vaccines  - equipment such as syringes, needles, instruments, etc.  - growth charts or immunization cards  - cold chain aquipment such as vaccine carriers, cold packs etc.		

Acti <b>vities</b>	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
. (continued) Immunization of pregnant women and children	2.3 First Health Facility		nurse nurse/ midwife	- Same as in 2.2 l and 2.2.2 - ability to cooperate and	Same as 2.2.2  - map of area with pop-	Same as 2.2.2 - supervia-	- involvement and support of res- pected people in the community
en e		outreach facility	if applicable medical	communicate with community preferably including ability to speak and	each village	ion from next higher	such as com- munity leaders, development
	:	<ul> <li>b) participation in planning and evaluation;</li> </ul>	assistant	understand local language - skills in establishing and		level	committees, school authorities,
		- meetings with District Office staff and with		conducting immunization sessions taking into consideration:	surveys - disease surveillance		women's groups, youth associations, traditional
		community members for planning of imm unization ses-		<ul> <li>size of eligible population;</li> <li>distances</li> </ul>	reports - simplife AV material		practitioners and TBAs
		sion schedule - assistance to		<ul> <li>vaccine wastage factors</li> <li>appropriate knowledge of</li> </ul>	including equipment for demon strations		
		health teams as required in cov- erage assessment		<ul> <li>appropriate knowledge of methodology used for coverage assessment</li> </ul>	stractors		
		- contribute to discussions of assessment res- ults		<ul> <li>teaching skills</li> <li>practical skills in immunization activities</li> </ul>			
enter en		- conduct periodic staff meetings		<ul> <li>knowledge of eligible population in the area</li> </ul>			a the second sec
		c) maintain records and report imm- unization status		<ul> <li>knowledge of how to collect, compile, analyse, and report data;</li> </ul>			
		<ul> <li>d) maintain surv- eillance of vaccine prevent- able diseases</li> </ul>		- ability to monitor programmae activities			
		e) supervise all categories of health workers					
en e		f) provide in- service training to all categor-					e e e e e e e e e e e e e e e e e e e
		ies of staff				1	

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2. (continued)  Immunization of pregnant women and children	2.4 First referral level (District Health Officer)	a) development of immunization plan b) allocation of resources c) conduction of disease surveillance and report to central level d) conduction of coverage evaluation surveys e) contribution to discussions of assessment of results		- as above in 2.2 and 2.3  - ability and knowledge required to assume leadership role in the planning, implementation and evaluation of immunization programmes  - ability to acquire and efficiently utilize consultant services		- transport facilities - consultant services by epidem- iological and other expertise, as required - record and reporting systems	- support of, and collab- oration from, influential people such as chiefs, school authorities, women's groups, etc.
		f) obtaining and maintaining interest and support of health services personnel by: - supervision of all categories of health workers					•
		- conduction of periodic staff meetings for all categories of staff					

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
B. Provision of vaccine	3.1 First Health Facility	a) estimating the requirement for vaccine: - collection of vaccine from	nurse, nurse/mid- wife community volunteer	- ability to report accurately: - vaccinations done - vaccine used - vaccine needed	- vaccine carriers, - icepacks	- transport for col- lection of vaccine from the District	- community help to transport vaccine in an emergency
		the District Health Office	volunteer	- vaccine needed	- supply records	Health Office, or expenses to use	ti ka
		b) storing vaccines	, i		*	transport	
		- organizing and rotating stocks in the refrigerator	nurse or other trained health worker	- knowledge of vaccine handling procedures  - ability to read and adjust temperature	- effective and appropriate refrigerator - thermometer	- regular supervis- ion of vaccine handling	- community to help store vaccine in an emergency
		<ul> <li>reading the temperature and adjusting the thermostat</li> </ul>		accurately and ability to act in an emergency	- refrigerator record forms	to encour- age and assess need for	
		c) maintaining equipment:	*		: 	improve- ment	47
		- checking and cleaning equipment each day, each week, each month.	as in <u>b</u> above	<ul> <li>knowledge of equipment maintenance procedures and proper use of equip- ment</li> </ul>	- refrigerator spare parts - simple tool kit (UNICEF/	- training and super- vision from D.H. office	
		- repairing equipment and fitting spare parts	refrigerator technician for major parts		UNIPAC)	- supply of spare parts by office	
		opare pares				- visits by repair technician	
		d) obtaining fuel supplies for the refrigeration equipment (non electric)	community volunteer, or trained health worker in centre	- ability to follow thoroughly a routine of fuel stock checking and collecting fresh supply	- for kerosene or gas refrig- erators; enough fuel with reserve of at least one week	- expenses for pur- chase of fuel	- arrangements for alternative fuel sources in an emergency

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3. (continued) Provision of vaccine	3.1 First Health Facility	e) using and despatching vaccine:					
	racinity	<ul> <li>packing vaccine in carrier for field use, when applicable</li> </ul>	as in <u>b</u> above	<ul> <li>knowledge of and skills in vaccine handling procedure</li> </ul>		- provision of ice or ice packs	- help to provide ice in an emergency
		- protecting vac- cine from heat during use			- container for vaccine viala with ice	- supervis- ion of the immunizat- ion clinic to check on vaccine handling procedures	<ul> <li>awareness of the community that vaccine and diluents needs to be with ice at time of use</li> </ul>
	3.2 First referral	a) receiving vaccine					
The second second	level (district health office)	- estimating requirement for vaccine - collection of vaccine from	public health nurse assistant for the public	- ability to report accurately: - vaccinations dona - vaccine used - vaccine needed	- 1 vaccine cold box for field use and emergency storage	- reports on target population in coverage surveys,	- as above in 3,1,a
		the regional store, or receive delivered vaccine	health nurse	- vaccine needed  - raliability to meet    vaccine or travel    without delay from    the regional store	- 2 vaccine carriers	- transport for collection of vaccine from the	
			7 24 - 12 - 18 7 - 1		***	regional store or expenses to use use public	
		b) storing vaccine				transport	
		- organizaing and rotating stocks in the refrig- ator or freezer - reading the	laboratory technician or store-keeper (1 person responsible)	- knowledge of vaccine handling procedures  - ability to read and ajust temperatures accurately and ability to act in	- refrigeration or freezer - refrigerator record forms	- regular supervis- ion of vaccine handling to encour-	- as above in 3.1.b
		temperature and adjusting the thermostate - record keeping		an emergency  - ability to maintain a stock record for each vaccine	- vaccine stock record forms	age and assess the need for improvement	*
						- supervis- ion of stock control	
+ 62 + 12 ** + 11 **						accuracy	•

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3. (continued) Provision of vaccine		c) maintaining equipment;					
		- checking and cleaning equip- ment each day, each week	laboratory technician or store-keeper	<ul> <li>knowledge of equipment maintenance procedures and proper use of</li> <li>equipment</li> </ul>	- refrigerator spare parts for district office ref- rigerator	- supply of spare parts	- as above in 3.1.d
		- repairing equip ment and fitting spare parts		- knowledge of simple repair procedures - ability to follow strict		technic- ians expenses for	
		- obtaining fuel supplies (if electricity is not available)		routine of fuel stock checking and collecting fresh supplies	- simple tool kit (UNICEF/ (UNIPAC)	purchase of fuel	
					- enough fuel with a reserve of at least two weeks		
		d) despatching vaccine:	•				
		- packing vaccine for transport to the health centra	laboratory technician or store- keeper (1 person responsible)	- knowledge of vaccine handling procedures	- vaccine car- riers brought by health centres when collecting vaccine	- provision of spare vaccine carriers and ice packs	- community or local shops to provide ice in an emergency
e de la companya de La companya de la co					- ice packs for carriers and cold box	- expenses for ice purchase if neces-	
		e) supervision/ training of field staff				sary	
		- vaccine handling supervision	public health nurse	- knowledge of vaccine handling procedures - knowledge of supervaion	- checklists	- training for super- visors	
		- vaccine stock checks - on-the-job training of responsible staff		and teaching methods  - ability to calculate minimum/maximum stock levels and compare actual stocks found in health centre refrigerators	- cold chain slide set - 1 thermometer for temperatur checking	e	

Activities	Level	Taska involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	logistic support	Community support
nition of suspected malaria cases, appropriate treatment and	1.1 Home	a) recognition of usual symptoms of malaria, particularly fever	individual family members mother/father	- knowledge of main malaria symptoma, complications of severe malaria, and consequences	- suitable infor- mation material, like pamphlets, etc.	<ul> <li>procurement of drugs, and supply to home and CHWs</li> <li>facilities for health education</li> </ul>	e.g. health com- mittees and volunteers
referral		b) seeking care c) taking pres- cribed drugs		- knowledge of availa- bility and location of health facilities		- supervision by other levels of health services	- support and health education in schools, churches mosques, etc.
		d) as above  e) taking blood slides from fever cases and sus- pected cases where practicable  f) administration of standardized treatment g) recording patients and treatment given		- ability to identify malaria symptoms and social and health consequences  - taking slides, pack- ing and forwarding them  - knowledge of treat- ment dosage for different age groups, and contra- indications  - knowledge of referral	- as above - check-list and/ or manual of his tasks - essential drugs - kit with record- ing forms, stationery, blood slides, needles, cotton, alcohol, etc.	- access to refresher training and con- sultation	- facilities for CHWs - financial support for drug procurements - community cooperation and acceptance - support from community development committees or similar bodies
		h) directing patients to referral facili- ties whenever necessary		facilities  - basic training in health education practice			- storage facilitie - local herbalists and healers - identification.
		i) maintenance of regular supply of drugs j) supervision of home tasks		- ability to communi- cate with supervisory level			selection and training of CHWs in cooperation with health autho rities
							- financial support for drug procure- ments

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
l.Early recog- nition of suspected malaria cases, appropriate treatment and	1.2 First health facility	a) - j) in l.l above  k) taking blood slides and micro- scopic examina- tion, or sending	nurses midwives medical assis- tants physicians	- adequate theoretical knowledge and practi- cal skills about malaria with basic elements in epidemio- logy, parasitology,	- essential drugs - manuals - laboratory and equipment	- records - stores - referral system	- assistance with transport facili- ties - assistance with land and building
referrat		to hospital  1) record-keeping		entomology and methods of control of malaria	supplies - transport faci-	- supervision	facilities - support to train-
		and reporting on malaria morbi- dity and morta- lity			lities for supervision		ing of selected community members and CHWs - appropriate commu-
	,	m) supervision of CHWs n) training commun-	÷ ;				nication system, e.g. public trans- portation, tele- communication
		ity members and CHW whenever possible			: .		
	1.3 First referral level	<ul> <li>a) adequate manage- ment of severe or referred cases</li> </ul>	nurses physicians	- adequate knowledge and practical skills of the clinical and preventive aspects of	- manuals - essential drugs and other anti-	- stationery - management of supplies	- public transport - appropriate commu- nication system,
		b) supervision and continuing train- ing of CHW and volunteers		malaria - ability of the mana- gement of severe mal-	malaria druge and facilities for severe cases	- stores	e.g. public trans- portation, tele- communication
			· · · · · · · · · · · · · · · · · · ·	aria cases and radi- cal treatment of mal- aria	- laboratory supplies		
				- knowledge of the nat- ional malaria control strategies			
2. Preventive treatment to high risk groups of population (expectant	2.1 Home	<ul> <li>a) undertaking pro- tective measures, including taking regularly pres- cribed drugs</li> </ul>	pregnant women mother/father individuals at risk	- knowledge of health and social consequen- ces, preventive ser- vices and available standardized drugs	- suitable infor- mation material, like pamphlets, etc.	- facilities for health education - regular provision of drugs	- community gene- rated support, e.g. health com- mittees and volun- teers
mothers, chil- dren 0-4 yrs and adults in communities of high economic importance)					- drugs		- support and health education in schools, churches mosques, etc.

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Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2. Preventive treatment to high risk groups of population (expectant mothers, chil- dren 0-4 yrs and sdults in communities of high economic importance (cont'd)		b) identification of individuals to be protected  c) home visits  d) drug distribution  e) recording and reporting system  f) maintaining adequate stock of drugs  g) supervision of home tasks res-	CHW volunteers TBAs	- as above - identification of the selected groups to be protected - knowledge of preventive action of drugs and dosage by age groups - knowledge of drug storage and record-keeping	- adequate drugs - kit with report- ing forms and stationery - relevant infor- mation material (pamphlets, etc.)	- facilities for health education - transport for home visits - manuals - supervision - inventory/map-ping of villages and houses	- financial support for drug procure- ments - facilities for CHWs (housing, etc.)
	2.2 First health facility	ponsibilities  a) as above in 2.1 but here the receivers of drugs come to the health facility	nurses nurses/midwives medical assist- ants physicians	- as above in 2.1  - knowledge of basic elements in epidem-iology, parasitology,	- adequate drugs - relevant infor- mation material, pamphlets, etc.	- facilities for health education	- provision of local . facilities for the trainee CHW - transport
		- supervision of CHWs - operational evaluation		entomology and methods of control of malaria - capability of parti- cipating in the train- ing of CHMs	- material and equipment for training	- supervision - preparation for training of CHWs - transport facilities	
					; ;	- inventory/map- ping of villages and houses	
	2.3 First referral level	a) supervision of CHWs and first health facilities b) training of CHWs, health workers	nurses physici <b>a</b> ns	- as above in 2.2  - basic knowledge of malaria and of nation- al malaria control strategies  - planning, supervisory	- as above in 2.2 - laboratory equi- pment for mala- riometric eval- uation	- facilities for health education - participation in the training of CHWs and first health facili- ties' personnel	- appropriate commu- nication system, e.g. public trans- portation, tele- communication
	,	and first health facility person- nel  - epidemiological evaluation		- pranning, supervisory and evaluation capa- bility - training capability		- supervision - transport and com- munication facili- ties	

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3. Reduction of prevalence of malaria* 3.1 Reduction	3.1.1	a) acceptance of and	individual	- knowledge of the	- pamphlets on	- facilities for	- community coopera-
of vector longevity	Home	cooperation with the spraying operations, etc.	family members	importance of spray- ing operations for the health - knowledge of the	health educa- tion on the subject	health education - development and production of health education	tion - health education at community level
				transmission of mala- ria by mosquitos, and of the need for spray- ing		material	
		b) information and motivation of people for the spraying opera-	CHW and volunteer com- munity leaders	- knowledge of the spraying operation methods and the impor- tance for the health	- as above - relevant sup- plies, equip-	- supervision - transport facilities	- as above - facilities for the spraymen, accommo-
		tions  c) carrying out spraying if so	apraymen squad-leaders	of the people - socio-cultural set- ting with a view to	ment and spare parts, insecti- cides, protec- tive clothes and		dation; water to dilute the insec- ticide
		programmed  d) inventory, map- ping of villages,		applying appropriate health education prin- ciples	emergency kit for toxic acci- dents		- storage facilities for insecticides and equipment
	şê .x	houses, etc.  e) insecticidal residual spraying of structures		- knowledge of the spraying opera- tion methods and evaluation			44.4
		f) recording and reporting acti- vities		- relevant train- ing and re- training of spraymen			
	. *	g) training and supervision of apraymen					
		h) checking cover- age, dosage, date of application of the residual insecticide	· · · · · · · · · · · · · · · · · · ·				
	3.1.2 First health	a) operational evaluation	health inspector	~ as above in 3.1.1		- as above in 3.1.1	- storage facilities
	facility	b) supervision of CHWs					
· · · · · · · · · · · · · · · · · · ·		c) promotion of health educa- tion		· ·		, 1 :	

<sup>\*</sup>The implementation of these activities may vary according to the local conditions and should therefore be adapted accordingly

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3.1 Reduction of vector longevity (cont'd)	3.1.3 First referral level	a) epidemiological and operational evaluation b) supervision of lower levels	public health medical officer	- knowledge of the spraying operations and malaria control	- relevant mater- ial for evalua- tion	- transport facilities - consultant service of an epidemiologist as appropriate	
3.2 Reduction of man/vector contact	3.2.1 Home	a) use of repell- ents, bed nets, window screen- ing, selection of proper site of the house b) residual spray- ing as in 3.1.1 c) selection of building sites and promotion of the above tasks	responsible family member  CHWs/community leaders, tech- nical services	- knowledge of trans- mission of malaria, and ability to apply preventive measures - knowledge about criteria of the proper site of the house	- necessary screens, and repellents when ever feasible - as in 3.1.1, if programmed	- availability of material - documents about malaria and individual protection - advice from technical services	- motivation through community health education - training of CHWs - intersectoral co- ordination and co- operation (different ministries, etc.
	3.2.2 First health facility	a) promotion of health education  b) supervision of CHWs	nurse - medical assis- tant	- knowledge of the dis- ease and preventive measures - basic knowledge of parasitology and entomology	- facilities for health educa- tion	- transport facilities	Maria La Seria
	3.2.3 First referral level	a) epidemiological and operational evaluation b) promotion of health education c) supervision of lower levels	public health medical officer entomological technician	- as above in 3.2.2 - methods of malaria control	- facilities for health education - facilities for evaluation	- transport facilities	- intersectoral co- ordination and co- operation

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Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3.3 Reduction of vector population	3.3.1 Home	<ul> <li>a) peri-domestic sanitation</li> <li>b) intermittent emptying of water containers, fill- ing up ponds, draining pools, planting trees, etc.</li> </ul>	family members  community leaders, CHWs, volunteers	- understanding of the transmission of malaria by certain mosquitos  - knowledge of the mosquito cycle  - identification of breeding places of mosquitos transmit-	- documents on the subject - locally adapted supplies and equipment	- individual and com- munity input  - tools  - facilities for health education  - training and infor- mation	- health education at the community level - educational pro- grammes for adults - training of CHWs - health education on the subject
		c) prevention of man- made malaria (i.e. cisterns, disused wells, borrow-pits left by building projects, obstruc- ted drains, etc.)		ting malaria		- supervision	
	3.3.2 First health facility	a) application of larvicides (urban) selected rural areas, develop- ment projects)	community or malaria workers operational leaders entomological technicians	- knowledge of mos- quitos, larvae cycle and breeding places - knowledge of the methods of applica- tion of larvicides	- adequate sup- plies, equipment and technology - larvicides	<ul> <li>training</li> <li>transport facilities</li> <li>supervision</li> </ul>	- community coopera- tion - facilities for field workers and storage
		b) ultra low (ULV) insecticide appli- cations (in case of apidemics only	technical men	<ul> <li>technical knowledge of ULV equipment</li> <li>knowledge of the bio- nomics of the vectors</li> <li>ability to contact people</li> </ul>	- adequate sup- plies and equip- ment - insecticides	- transport and petrol	- community coopers- tion
	3.3.3 First referral level	a) epidemiological and operational evaluation	epidemiologist	- methods of malaria control	- facilities for evaluation	- transport facilities	
4. Interrup- tion of trans- mission of malaria*			As in 3, but adap	ted to malaria eradication	structures and str	ategies	

\*For more advanced programmes

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1. Early detection and diagnosis:  - identification of	1.1 Home	a) history taking re: - hypertension - strokes - toxaemia of	responsible family member	<ul> <li>knowledge of BP and of services available for its control; need for regular checks after middle age*</li> </ul>	- suitable AV information material	- facilíties for health education classes	- community genera- ted involvement e.g. health deve- lopment committees and volunteer
"at risk" subjects and		pregnancy - oral contracep- tion					health workers
- detec- tion of patients		b) incidental screening, BP measurement c) referral as	CHW	- as above - skill in measurement of BP and in record- keeping	- as above - BP machines - record-keeping	- transport services for home visiting and referrals	- support from de- fined groups e.g. religious bodies, factories, schools
		appropriate d) record-keeping		- knowledge of refer- ral procedures	and referral forms		- appropriate commu- nications system, e.g. public trans-
	1.2 First health facility	<ul> <li>a) history taking</li> <li>b) physical examination including</li> <li>BP</li> </ul>	medical assistant nurse	- basic knowledge and skills required for CVD given as part of normal training or in continuing education courses	- as above in 1,1 - equipment for urinalysis	- as above in 1.1 - stores - referral system	portation, tele- communication, mailing
		c) urinalysis d) record-keeping e) regular BP checks after middle age*					
	l.3 First referral level	a) - e) as above in 1.2 f) special tests, e.g. X-ray, ECG and blood tests	physician nurse laboratory technician	- as above in 1.2  - skill to evaluate hypertension, e.g. opthalmoscopy and interpretation of X-ray, ECG and blood tests	- as above in 1.2 - equipment and supplies for special tests	- as above in 1.2  - adequate supplies and spares  - opportunity for referral to specialist centre	

<sup>\*</sup> actual age will depend on BP frequency distribution in the community

Level  2.1.1 Home  2.1.2 First health facility	a) persuading pat- tients, with or without symptoms to seek treat- ment b) counselling: firm but non- alarmist approach advice re weight; oral contracep- tives; salt in- take; alcohol excess; smoking; c) encouraging adher- ence to treatment	Person(s) responsible  family member  CHW	Competence and knowledge required  - as above in 1.1  - limited formal training, tailored to local needs and educational background, to cover tasks in a) to c)  - (see also 2.2.1 below)	Supplies and equipment  - A-V health information materials  - suitable training materials, e.g. prepared educational manuals	Logistic support  - facilities for health education of the community  - administrative arrangements and facilities for initial and in- service training of volunteers and health personnel	- same community involvement and intersectoral support as required for Activity 1
2.1.2 First	tients, with or without symptoms to seek treat- ment  b) counselling: firm but non- alarmist approach advice re weight; oral contracep- tives; salt in- take; alcohol excess; smoking;  c) encouraging adher- ence to treatment		- limited formal train- ing, tailored to local needs and educa- tional background, to cover tasks in a) to c)	information materials  - suitable train- ing materials, e.g. prepared educational	health education of the community  - administrative arrangements and facilities for initial and in- service training of volunteers and	involvement and intersectoral sup- port as required
2.1.2 First	- firm but non- alarmist approach - advice re weight; oral contracep- tives; salt in- take; alcohol excess; smoking; c) encouraging adher- ence to treatment	CHW	ing, tailored to local needs and educational background, to cover tasks in a) to c)	ing materials, e.g. prepared educational	arrangements and facilities for initial and in- service training of volunteers and	
health	ence to treatment		- (see also 2.2.1 below)			
health	irst as above in 2-1 1					
	- for reinforce-	medical assistant nurse	- as above in 1.2	- as above in 2.1.1		19 1975
2.1.3 First referral level	- diagnosis and clinical assess- ment - initiating pt. education pro- gramme	physician nurse laboratory technician	- as in 1.3, comple- mented by continuing education courses	- as abovein 2l.1 - materials required for clinical assessment		
2.2.1 Home	- drug storage and administration - recognition of physical deterioration - recognition of side effects	patient or family member CHW	- basic knowledge of: dosage; potency; side-effects; storage/shelf life	- drugs as pres- cribed - facilities for safe keeping	- as provided under PNC Element 8: "Provision of Essential Drugs", for the procurement, storage, quality control and distri- bution of drugs	- community action to ensure con- tinuous availa- bility of recom- mended range of drugs and supplies in adequate quan- tities at all
2.2.2 First health facility	- as above in 2.2.1 - prescribing/sup- plying first level drugs e.g. diure- tic, reserpine, beta blocker - monitoring effi- cacy and side effects	medical assistant nurse dispensing assistant	- as above in 2.2.1 - competence in drug supply, storage and dispensing procedures	- first level drugs - suitable dis- pensing and storage con- tainers	seiected for BP control	leveis
2.2.3 First referral level	- prescribing and supplying - with- in the full range of recommended drugs - monitoring effi- cacy, quality and side effects	physician pharmacist nurse	- as provided in recog- nized training and refresher/continuing education courses	- full range of recommended drugs - suitable dispen- sing and storage containers		
Fine far	irst ealth acility 2.3 irst eferral	side effects  2.2 - as above in 2.2.1 - prescribing/supplying first level drugs e.g. diuretic, reserpine, beta blocker - monitoring efficacy and side effects  2.3 - prescribing and supplying - within the full range of recommended drugs - monitoring efficacy and side effects	side effects  2.2 - as above in 2.2.1 medical assistant nurse dispensing first level drugs e.g. diuretic, reserpine, beta blocker - monitoring efficacy and side effects  2.3 - prescribing and supplying - within in the full range of recommended drugs monitoring efficacy and side effects  2.3 - prescribing and supplying - within in the full range of recommended drugs - monitoring efficacy and side effects	side effects  2.2 - as above in 2.2.1 medical assistant competence in drug supplying first level drugs e.g. diuretic, reserpine, beta blocker monitoring efficacy and side effects  2.3 - prescribing and supplying - withing the full range of recommended drugs of recommended drugs monitoring effication courses monitoring effication courses monitoring effication courses	side effects  2.2 - as above in 2.2.1 medical assistant nurse plying first level drugs e.g. diuretic, reserpine, beta blocker monitoring efficacy and side effects  2.3 - prescribing and supplying - withing ferral in the full range of recommended drugs of recommended drugs employing efficacy monitoring effication of recommended drugs employing effication courses employed effication courses employed in the full range of recommended drugs education courses employed in recommended drugs education courses employed employed in recommended drugs education courses entries employed in recommended drugs education courses employed in recommended drugs education courses entries employed in recommended drugs education courses employed in recommended drugs education courses entries employed in recommended drugs entries employed emplo	side effects  2.2 - as above in 2.2.1 medical assistant nurse plying first level drugs e.g. diuretic, reserpine, beta blocker monitoring efficacy and side effects  2.3 - prescribing and supplying - witheferral in the full range of recommended drugs of recommended drugs employing effication for the full range of recommended drugs education courses employed as a solve in 2.2.1 - first level drugs selected for BP control  - as above in 2.2.1 - first level drugs selected for BP control  - suitable dispensing and storage containers  - as provided in recognized training and refresher/continuing education courses education courses sing and atorage containers

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3. Follow-up and prevention of complications	3.1 Нове	- monitoring BP and treatment - encouraging com- pliance to - record-keeping - referral	family member or petient CHW	- as in 1.1 above	- as in 1.1 sbove	same support a 1 and 2	s for activities above
	3.2 First health facility	- as above in 3.1 on a periodic basis	medical assistant nurse	4	same requirements	as under activities 1 a	nd 2 above
	3.3 First referral level		physician nurse				
4. Treatment of emergencies	4.1 Home	- first aid and prompt transfer to hospital	family friends workmates, etc. CHW	- knowledge of simple first aid measures and care of patients during transportation	- facilities for transportation	- facilities for health education classes	- reliable trans- portation system
	4.2 First health facility	- initial emergency treatment	medical assistant nurse	- recognition and initial treatment of certain emergencies, e.g. L.V. failure	- recommended range of drugs for parental	Supplies - acquisition - storage and	- transportation and telecommunication links for referral
	4.3 First referral level	- emergency treat- ment and recov- ery care	physician	- recognition and treatment of all common emergencies	administrat <b>ion</b>	- accounting proce- dures	
5. Management of complica- tions (long-term)	All levels	Follow-up as under activity 3 - supervision of rehabilitative measures and procedures	family and personnel at all levels	- training for rehabi- litative care, e.g. physiotherapy	- drugs and appliances (see also activity 2.2)	- transport to rehabi- litative clinics	- same support as for activities 1 and 2

# PHC ELEMENT No 7: APPROPRIATE TREATMENT OF COMMON DISEASES AND ACCIDENTS

## - (a) Diarrhoeal Diseases

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1. Diagnosis of diarrhoeal disease and provision of appropriate treatment	1.1 Home	a) recognize that the child has diarrhoea and that treatment must be started early b) feed child extra fluids (e.g, boiled rice water, weak tea, soups, juices, or suitable home-made solutions) to prevent dehydration c) recognize the signs and symptoms of dehydration and seek care when it occurs d) obtain ORS packets, mix packet ingredients with correct amount of safe water and administer OR fluids to child in appropriate amounts e) follow dietary practices, as advised for treatment of diarrhoea and continue breastfeeding	family members	- skill in recognizing symptoms of diarrhoeal disease  - knowledge of suitable additional fluids and skill in preparing them  - skill in recognizing signs of dehydration and know- ledge of availability and location of CHWs and health service facilities  - knowledge of where ORS packets can be obtained and at what cost  - knowledge and skills to correctly prepare and administer OR fluids  - knowledge of appropriate dietary practices	- information material which is appropriate to the beliefs traditions, attitudes, and education of family members  - ORS packets  - appropriate sized container to mix ingredients  - safe water, or utensils to boil water	support of referral system  - distribut- ion system for ORS packets	support of relevant health information and education of various community groups e.g.

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Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1. Diagnosis of	1.1	- as above in a) - d)	community	- as above plus;	- as above	- distrib-	
diarrhoeal disease	Ноте	plus:	health workers	•		ution and	4. 4.
and provision of	(con-			- skill in identifying	- checklist,	storage	
appropriate	tinued)	determine type of		symptoms and signs of	manual, guide-	system for	
treatment	ĺ	treatment needed		dehydration and degrees	lines, or	ORS	_
(continued)	. 1	based on recommended		of it	other referen-	packets	
		guidelines (e.g.			ces and		•
	1	increased breastmilk		- knowledge of treatment	training	- supervis-	
·		and/or other fluids		appropriate for various	documents	ion by	
	1	and continued normal	100	degrees of dehydration and		next	
	1	feeding, OR therapy treatment at health	-	when to refer to higher level		higher level	
	l			Tevel		Tenet	
e e e		service facility)		- knowledge of when ORS			•
		provide ORS packets		packets should be left		, '	į
1	[	to family		with family and how many			
		10 14.119		with ramity and now many			
		train family members		- practical skills in train-			
		to perform tasks	•	ing appropriate to local			* .
	1	a) - e) above		beliefs, traditions,			
	1	-		attitudes, and educational	***		
				background of persons			
				being trained			
7		•				· .	
	i i			- preferably literacy	1	l	

	Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1.	diarrhoeal disease and provision of appropriate treatment	l.2 First Health Facility		nurses, medical assistants (physician)	<ul> <li>as in 1.1 above</li> <li>knowledge of indicators that IV therapy or other drugs are needed</li> </ul>	- as above in l.l	- distribut- ion and storage system for ORS	
	(continued)		b) train community health workers to perform tasks tasks listed in 1.1 c) supervise CHWs		<ul> <li>skill in administering IV therapy</li> <li>skills in monitoring and supervising</li> </ul>	essential clinical equipment and supplies - training	packets - procure- ment and mainten- ance of	
			d) administer other drugs (e.g. antibiotics)		<ul> <li>knowledge of availability of other drugs and their dosage schedules and mode of administration</li> </ul>	materials suitable for CHWs recommended	and supplies	
s						drugs and relevant information literature	- administr- ative ar- rangements supplies, and	
							facilities for initia and in- service training o	l i
	en e		· - · · · · · · · · · · · · · · · · · ·				community health workers - procure-	
							ment of approp- riate drugs	
							- record systems	

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1. Diagnosis of diarrhoeal disease and provision of appropriate treatment (continued)	1.3 First Referral Level	- as above in 1.2 plus:  a) give patient OR and/ or IV therapy as appropriate  b) collect specimens of stool and blood and perform laboratory tests  c) package oral rehydration ingredients if applicable  d) train health service facility personnel	physicians, nurses, lab technicians, pharmacists	- as in 1.2  - skill in performing laboratory techniques (e.g. blood tests, slide preparation)  - knowledge of procedures for packaging OR ingredients	- as above in 1.2 and 1.2 and 1 aboratory equipment and supplies - guidelines for the production of ORS - essential pharmaceutical ingredients - pharmaceutical scale	and supplies - procure- went of raw materials	- community support to develop local cottage insustry for preparation of ORS packets if feasible and appropriate
		to:  - determine when oral rehydration is appropriate;  - administer oral rehydration  - supervise work at other levels of PHC			- packaging material - training materials suitable for health service facility personnel	- adequate storage facilities	

	Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2.	Prevention of distribution disease	2.1 Home	<ul> <li>a) breastfeed infant for at least one year, preferably two</li> </ul>	mother and other family members	<ul> <li>knowledge of the importance of proper diet, personal hygiene, food hygiene practices, and</li> </ul>	- informative material which is appropriate to the		- support for communal arrange-ments for food production and
			b) begin supplementing child's diet when (s)he is about 6	CHW	sanitation practices	beliefs, traditions, attitudes and	rative arrange-	provision of safe water supply (see also PHC
		11.2 ·	months of age with safely prepared		<ul> <li>skill in performing the tasks specified</li> </ul>	education of the family	ments, suppli <b>es,</b> and	Element 2, "Food Supply
			and nutritionally adequate weaning foods	·	<ul> <li>knowledge of locally available, nutritionally adequate weaning foods,</li> </ul>	members - nutritionally	facilities for training	and Proper Nutrition, and PHC Element 3,
	1 1	·	c) practice personal hygiene with regard		and skill in safely preparing them of. PHC Element 2	adequate weaning foods	family members	"Adequate supply of Safe Water and Basic Sanitation"
			to preparation, atorage and serving		- knowledge of current	- safe water supply, and	- transport tor CHW	Dasic Sanitation
			of foods and the use of latrines and and disposal of		practices, beliefs, attitudes, taboos, etc., relevant to those	appropriate sanitary facilities	home Visits	
			excreta cf. PHC Element 3		practices being promoted		:	
	 	•	<ul> <li>d) isolate patients with diarrhoeal disease, if possible away</li> </ul>		<ul> <li>skill in using motivating communication techniques appropriate to local conditions</li> </ul>			
			from children <b>and</b> older persons					
			e) train family members to perform					
			tasks a) - d) above  f) educate family					
		·	members about the benefits of					<i>₹</i>
	·		performing tasks a) - d) above					
			<li>g) participate in communal activites to provide safe water and safe disposal of excreta</li>					

	Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2.	Prevention of diarrhoeal disease (continued)	2.2 Communal Level	a) communal tasks related to the provision of safe water and basic sanitary facilities	As	in PHC Element 3 "Adequate S	upply of Safe Water	and Basic Sani	tation"
		2.3 First Health Facility		nurses, medical assistants	- as above in 2.1	- suitable educational materials	- administ- rative arrange- ments, supplies, and	- as above in 2.1 plus endorsement and support from network of health service facilities
			b) promote water and sanitation hygiene practices. cf. PHC Element 3				facilit- ies for educating family members and	cf. PHC Element 3
			c) supervise and participate in training CHWs	et e.			community health workers	
		·.					- supervision by next higher level	
		2.4 First Referral Level	a) As above in 2.3	Physicians nurses	- As above in 2.1	- suitable educational materials	- as above in 2.3.	- as above in 2.3

	Activiti <b>es</b>	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3.	Management of outbreak of diarrhoeal disease	3.1 Home	a) identify cases of diarrhoeal diseases and bring patients for treatment	family members	- as above in 1.1 - knowledge of safe water sources		- transport- ation of patients to temporary	- community involvement in organization of temporary treatment
			b) use only safe water				centres	centres
			<ul> <li>c) inform next higher level of suspected outbreaks as soon as possible</li> </ul>	CHWs	- skill in recognizing significant increases in cases		- system for prompt communic- ation of	
			d) participate in control measures		<ul> <li>knowledge of whom to inform regarding suspected outbreaks</li> </ul>		the loc- ation of disease-	
			· ·				causing source, temporary treatment	
	e e se sui		e de la companya de l				centres and safe water	and the second
		3.2 Communal Level	a) as above in 3.1 c) b) implement appropriate measures to control outbreaks (e.g, decontamination of of water, proper waste disposal)	CHWs village leaders teachers	- as above in 3.1  - knowledge of the source and mode of transmission of the outbreak of the diarrhoeal disease (e.g. contaminated well, river etc.)	- reference docuents - supplies and equipment needed to dispose waste,	- as above in 3.1 - system for prompt distribut- ion of the supplies	cases and implementing
			c) report new cases	workers	- skill in practical techniques of controlling outbreaks (e.g. decontaminating water, disposing waste)	decontaminate water (e.g. bleaching powder)	and equip- ment needed to control outbreaks	

	Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3	Management of outbreak of	3.3 First	a) as above in 3.1 c)	nurses	- as above in 3.2	- laboratory supplies and	- as above in 3.1 and	- as above in 3.1 and 3.2
	diarrhoeal disease	Health Facility		medical assistants	<ul> <li>skill in taking blood, water, and stool samples</li> </ul>	equipment	3.2	plus organization of volunteer
	(continued)	,	<ul><li>c) send specimens to laboratory</li></ul>	sanitary	- knowledge of where to	- reference documents	- system for collecting	in treatment
			d) determine appropriate measures to control	inspector	send specimens - knowledge of socially	- essential drugs	preparing, and del- ivering	centres
			outbreaks (e.g. decontamination of	1	acceptable measures to control outbreaks	- stockpiled	specimens to	
			water, proper waste disposal)		- knowledge about the	supplies (e.g. ORS, IV, other		
			e) supervise/assist community members to		resources, personnel and equipment needed to operate temporary	clinical supplies, tents, etc.	- prompt transport of the	
			implement appropriate control measures		operate temporary treatment centres	- essential	supplies needed to	
			f) establish temporary		<ul> <li>skill in establishing temporary treatment</li> </ul>	equipment for temporary	set up temporary	
		·	treatment centres g) report new cases		centres	treatment centres	treatment centres	
			g) Tepott new cases			t e	- super- vision by	
							next higher	· · · ·
	e to produce production						level	
		3.4 First	a) as above in 3.3, a) b), d) and e)	public health officer	- as above in 3.1 - 3.3	- as above in 3.3	- system for prompt	
		Referral Level	b) test lab specimens	nurses	<ul> <li>skill in performing laboratory techniques</li> </ul>		communic- ation of	
				laboratory	(e.g. preparing slides)		diagnosis of diarrhoeal	
							disease and	
							health service	
					#		facility personnel	
							and community residents	
		·					- consultant	
							assistance by epidem-	
			1				iologists a required	8

	Activíties	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logist <b>ic</b> support	Community support
3.	Management of outbreak of diarrhoeal	3.4 (contd.) First	a) determine agent causing the outbreak	public health officer	- skill in performing laboratory tests and recognizing disease-	- as above in 3.3	- as above ia 3.3	- community assistance in communicating the
	disease (continued)	Referral Level	b) confirm source of agent	nurse	causing agent	- training materials	- storage facilities	findings of the
			c) prepare for adequate	laboratory technicians	<ul> <li>knowledge of diarrhoeal diseases etiology and</li> </ul>	suitable for	for ORS, IV	the epidemiologis
		·	management of diarrhoeal disease	tschulcians	epidemiology	medical and non-medical personnel	clinical supplies, tents a <b>nd</b>	(e.g. source of contamination, control measures
			outbreaks by:		- skill in identifying source of outbreak	hersonner	essential esuipment	needed) to the
			- stockpiling				for	community
		44 Š	supplies		- same as 1.3 q) and 3.3 i)		temporary treatment	
v .	7		- training medical personnel in		<ul> <li>skill to treat patients with diarrhoeal disease</li> </ul>		centres	
	t by the second		procedures for:		as in 1.1, 1.2, and 1.3		- prompt transport	
			- establishing		- practical skills in	•	of the	
			temporary treatement		training appropriate to local beliefs, traditions, attitudes, and educational		supplies and facil- ities for	
	1	·	centres;	i	background		training medical	
-			<ul> <li>providing treatment to large numbers of</li> </ul>				medical personnel	
			patients					
			d) train non-medical personnel to assist					
	12.	2 - 2	in the treatment of				•	
			patients wh <b>en</b> outbreak do <b>es occur</b>					
			e) supervise temporary					
			treatment centres		the state of the s			

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1. Treatment of cuts	1.1 Home	a) recognition of degrees of severity of cut	injured person or parents of injured	- ability to recognize injuries, understand dangers and arrest haemorrhage	- first aid kit and manual	- facilities for health education classes	
		b) arrest of haemorrhage	children			•	institutions
	1	c) protection of site of cut	other family members	- knowledge of how germs gain access to the body			- community programmes or
		d) seeking treatment if necessary	neighbours	- knowledge of availability and location of nearest health facility			activities for rehabilitation
		e) follow instructions for prescribed treatment/management					- economic and other support schemes for disabled
		- as in 1.1 a), b) and c) above	CHW other trained	- knowledge of how to: - arrest haemorrhage; - prevent infection;	- checklist and/ manual of tasks	- transport for home visits	- facility for health worker
		d) teaching how to prevent accident/cuts	community workers	- immobilize severely cut limbs	- home nursing		- assistance with emergency transport
				- knowledge of referral facilities and which cases to refer	Dag		Clauspoit
				- knowledge of local domestic circumstances and practices which may			
				lead to cuts - teaching skills			

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1. (continued) Treatment of cuts	l.2 First Health Facility	a) administration of anti-tetanus toxoid, if feasible  b) diagnosis of shock and treatment if	nurses midwives medical assistants	- adequate theoretical knowledge and practical skills in management of casualties - ability to recognize and	- essential drugs and medications - bandages	- treatment room - record systems	- help with emergency transport
		o,	and physicians (if available)	treat shock - skill in administering IV fluids	- appropriate surgical equipment		
		d) removal of foreign bodies from wound  e) examination of severity		- ability to diagnose severe cases requiring immediate hospital intervention	- sterilizing facilities - manuals, text-books		
		f) if no deeper tissues involved suturing and dressing wound		- teaching skills	audio-visual teaching aids		
		g) follow-up treatment, as required					
		h) if deeper tissues involved, arrangements for transport to hospital,	<b>5</b> ;				
		immobilization of limbs, and if necessary completion of referral slip				-	
	:	h) continuous training in first aid of front line health workers		in the second se			

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1. (continued) Treatment of cuts	1.3 First Referral Level	as above in 1,2 a) - e)  f) blood grouping g) adequate surgical treatment h) active measures to prevent future disability i) follow-up treatment if necessary including referral for specialized follow-up surgery or rehabilitative treatment	physicians nurses	- adequate knowledge and practical skills in treatment of injuries, including surgery - knowledge of up-to-date drugs, treatment and technologies - knowledge of availability of centres of rehabilitation - teaching skills	- as in 1.2 and more elaborate - teaching materials - textbooks, etc.	- surgical facilities - laboratory facilities - X-ray facilites - classroom facilities	to find blood donors, where appropriate
	2	k) continuous training of personnel					

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
reatment of urns and scalds	2.1 Home	a) assessment of degree of serverity of burns	as in l.l above	- understanding of dangers and complications of burns and necessity for skilled	- appropriate material on first-aid and		- as in 1.2 above
		b) for mild burns; - give analgesics - protect site		intervention - knowledge of how to assess	home nursing		
		<ul> <li>reassure patient</li> <li>call for skilled</li> <li>help</li> </ul>		severity of burns - understanding of what not		*-	
		c) if severe burns, as above plus arrange	<u> </u> 	to do (e.g. application of oil etc. to burnt area)			
		for immediate transfer to health facility or hospital		<ul> <li>knowledge of availability and location of health facilities</li> </ul>			
		d) rough estimation of	CHW	- ability to make rapid	- home nursing	- transport	- as in 1.2 above
		percentage of body burnt and depth of burns	other trained	calculation of percentage of body burnt (based on rule of 9)	bag - equipped	for health worker	
· · · · · · · · · · · · · · · · · · ·		e) if mild - as b) above arrange for later transfer to health facility	worker	- knowledge of principles and practices of shock treatment	analgesics		
1000		f) if severe - treat for shock as in c) above,		- ability to recognise difference between deep and superficial burns	A War	:	
		complete referral slip mentioning circumstances of burns where known		- knowledge that no treatment other than shock treatment should be undertaken	e e e e e e e e e e e e e e e e e e e		
		g) information of family members about prevention of burns and scalds in the		- knolwedge of local domestic circumstances and practices which may		·.	
		home		lead to burns and scalds;			

PHC ELEMENT No 7 (continued)

- (b) Management of common injuries in the home -

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2. (continued) Treatment of burns and scalds	2.2 First Health Facility	a) as above in 2.1 under CHW b) give injection of penicillin c) local treatment as appropriate d) arrangements for follow-up treatment e) if required, give IV fluids and arrange for referral to next level	nurses midwives medical assistant and physician if available	- complete first-aid knowledge of signs and symptoms of burns and how to assess their severity - knowledge of treatment of mild burns and of shock from large burns	- essential drugs - IV fluids	- treatment room - facilities for referral	
	2.3 First Referral Level	a) assessment of severity of case, taking other factors into consideration b) appropriate treatment c) arrangments for follow-up treatment d) referral of severe cases requiring specialized surgery	physicians nurses	- up-to-date knowledge of treatment of burns including surgical interventions within competency	- standard hospital equipment,	- surgical facilities	

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3. Treatment of poisoning	3.1 Home	a) recognition of symptoms of poisoning by: i) - non-corrosives ii) - corrosives iii) - snake/insect	parents of children	<ul> <li>knowledge of what constitutes a poison and differences in categories</li> <li>knowledge of appropriate first aid measures</li> </ul>	- first-aid and home nursing manuals - other information	- facilities for health education classes	
	14 41, 7	bites  b) first aid treatment as appropriate, i.e. for: i)	neighbours	<ul> <li>knowledge of home made emetics and antidotes</li> <li>knowledge of availability</li> </ul>	material		programmes
		administering home- made emetics and/or giving bland fluidsd; send for		and location of health workers/facilities			
		help or transport person; for ii) sending for immediate qualified help and					
		treating for chock for iii) incision and sucking out poison (if fang marks present), then send for help					
		a) as in 3.1 a) - b) above	CHW other trained	- as above in 3.1 - knowledge of antidotes	- home nursing bag equipped with	- possible two-way radios for	- as in 1,1 above
		b) teaching family members about accident prevention	community workers	to common poisons and how to administer them  - knowledge of local domestic circumstances	analgesics and antitoxins to known local varieties of poisonous	very remote areas	
				and practices which may lead to poisoning (e.g. keeping drugs out of reach of children, etc.	snakes and insects		

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3. (continued) Treatment of poisoning	3.2 First Health Facility	a) recognition of signs and symptoms of poisons, especially those ingested b) referral of selected cases to hospital c) continuous training of front-line workers in first-aid treatment of poisoning and and its prevention	nurses midwives medical assistants, if available physicians	- knowledge of different kinds of poisons  - theoretical knowledge and practical skills in dealing with them  - knowledge and skill to recognize serious cases requiring immediate transfer to hospital  - teaching skills	- essential surgical equipment and supplies including resuscitation equipment - emetics - antidotes and or antitoxins for commonly occurring poisonings and local known poisonous insects	teaching	- as in 1.2 above
	3.3 First Referral Level	<ul> <li>a) diagnosis and treatment/management of all types of poisoning</li> <li>b) continuous training of personnel in first level health facility</li> </ul>	physicians nurses	- theoretical knowledge and practical skills in diagnosis, treatment and management of all types of poisoning	- standard hospital equipment and supplies - teaching materials and visual aids		

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies <b>and</b> equipment	Logist <b>ic</b> support	Community support
1. Acquisition of drugs	1.1 Home	For the drugs in group A.*  a) obtaining/ receiving drugs from first health facilities or from CHW for	responsible family member or neighbours	- knowledge about which drugs are available and where - knowledge about the availability of drugs in group A2, their use and how and where	- drugs in proper packing material - information material on each individual drug	- provision of suitable containers	- provision of faci- lities for educa- tion on availa- bility and proper utilization of health facilities and drugs
		each individual case (group Al)  b) obtaining/ receiving drugs in group A2 at		to replenish them			
a e A e e e		regular inter- vals or as required  For the drugs in					- development of
		group B:*  c) obtaining pre- scription from health facility	en e	- knowledge about existing health facilities	information on material on each individual drug		community sponsored pharmacies and administrative supervision
		d) purchasing drugs from pharmacy or local herbalist		- knowledge about existing pharmacies or local herbalists			

# \*Grouping of drugs in PHC

- A. Drugs provided by the system at different levels of PHC, for free distribution to the patients:
  - Al Drugs supplied to an individual patient
  - A2 Drugs distributed to homes for constant use (e.g. preventive drugs, disinfectants, supplements)
- B. Drugs bought with prescription from private pharmacies or herbalists
- C. Drugs bought without prescription including locally available herbal medicines (vegetable drugs) and home remedies

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Activitie:	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1. Acquisition of drugs (cont'd)	1.1 Home (cont'd)	For the drugs in group C:	: ":	- recognition of general symptoms of common disease	information material on self-medication,		- provision of pro- grammes for health education related
		e) self-diagnosis and decision as to whether to give self-care		<ul> <li>knowledge of what con- ditions can be safely self-treated and how</li> </ul>	and manuals for growing, collecting, pre- serving and		to self-diagnosis, self-care and preparation and utilization of
		or to contact the health facility		- knowledge about the availability of drugs	preparing simple vegetable drugs		home remedies
		f) purchasing drugs from pharmacies or local herbalists					
		g) obtaining/ issuing of drugs in group A	CHW volunteers	- as above, in 1.1	- as above, in 1.1	- supply and distri- bution system for drugs	- provision of necessary amenities
		h) record-keeping and home super- vision		- skills in record- keeping	for storage - record-keeping materials	- transportation facilities	
						- encouraging the cultivation, collection, and preparation of	
		i) collection and preparation of locally avail-	local heroalists	- skills in prepara- tion of local remedies	- as above	vegetable drugs	
		able herbal medicines		. CORCULES			

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1. Acquisition of drugs (cont'd)	1.2 First health facility	For the drugs in group A, the assessment of local priority health problems and projection of drug needs:  a) estimation and	nurse pharmacy assistant medical assistant physician	<ul> <li>knowledge about how to project drug needs based on local priority health problems</li> <li>knowledge about the forms of requisition or how to formulate</li> </ul>	- necessary manuals and forms  - essential drugs relevant to local health problems	- maintenance of efficiency of supply systems - efficient distri- bution system - proper storage	
		projection of drug needs (including those of CHW b) requisition of drugs according to system of		them  - knowledge of system of supply including source of supply, timing and frequency of replenishment	- information leaflets on drugs	facilities	
		supply*  c) reception of drugs from first referral level or directly from					
		distribution sub- centre, or from distribution centre (depending on the national system of distri- bution**					
		d) record-keeping			that the state of		

<sup>\*</sup>System of supply can be based on:

- requisition
- supply allocation, based on the assessment of the need; in the latter, there is no need for requisition, drugs are supplied at regular intervals

- chain system, when each level is supplied and supervised by a higher level
- wheel system, when all the levels are supplied by a distribution centre or sub-centre
- any combination of the systems

<sup>\*\*</sup>Different systems of distribution can be operational:

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
1. Acquisition of drugs	1.2 First health facility	For drugs in groups 8 & C:	nurse medical assistant	- knowledge about availability of drugs including herbal	- list of available drugs		
	(cont'd)	e) giving prescrip- tions to the patients	or physician	medicine	- appropriate professional education material		
		f) guiding patients in choosing available drugs in group C					
	1.3 First referral level	For drugs in group A:	pharmacist medical assistant or	- as above in 1.2	- as above in 1.2	- as above in 1.2	
		a) assessment and projection of local priority health problems and projection of	physician				
		the drug needs (both for this level and below)					
	an in	b) requisition of drugs according to system of supply		en e			i de en en en en
÷		c) reception of drugs from next level of distri- bution according					
		to the system of distribution	; 				

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
Acquisition of drugs (cont'd)	1.3 First referral level	For drugs in groups B & C:	pharmacist, medical	- knowledge about good dispensing practice	- ** above in 1.2	- means of transporta- tion for inspection	- cooperation in the implementation of drug regulations,
(00.00 0)	(cont'd)	d) inspection of pharmacies* and stores for:	physician	- knowledge about prices of drugs	- list of drugs registered in the country.	- facilities for guality control	e.g. local report- ing system, availability and
		- availability of drugs	er.	<ul> <li>knowledge and skills of sampling procedures</li> </ul>	complete with retail prices	- adequate storage facilities	prices of drugs
		- adequacy of storage facili- ties		- knowledge of regulatory control	- containers for samples	e de la companya de l	
		- good dispensing practice		- knowledge of good manufacturing practices for	- manuals on good dispensing practice		
		- price control	71	herbal medicines			
en e		e) supervision of local produc- tion of herbal medicines for:			- manuals or information on herbal medicine		
		- hygienic opera- tion					
	ľ	- adequate standard					
		- taking samples for quality control	·				

<sup>\*</sup>Most drug legislations give power of inspection to the drug administration of the country, this duty in some areas can be delegated to other levels

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2. Drug storage	2.1 Home	For all three groups A, B, C:		knowledge about:			
		a) proper storage of drugs (e.g. pro- tection from heat and humidity; inaccessible to children)	responsible family members	- effects of adverse storage conditions on drugs - signs indicating deterioration of	- self-provision of drug cabinet, boxes with lock and key or dry high shelves		- assistance in the provision of adequate drug facilities at home
				drugs, for instance disintegration of tablets, change in colour, precipitation of fluids, change of smell and taste			
		b) provision of information and education about proper drug storage and supervision	СНЯ		- information material about proper drug storage		
	2.2 First health facility	Only for drugs in group A:					
		a) as above in 2.1 b) implementing rules of stock rotation includ- ing consideration of expiry dates	as above in 1.2 or store- keeper under supervision	- as above in 2.1 knowledge about: - basic good store- keeping practice	- adequate storage faci- lities - relevant forms, stock cards		
		c) supervising and training the lower levels for good store-keeping		- stock rotation	- teaching aids		

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
2. <u>Drug</u> storage (cont'd)	2.2 First health facility	d) keeping appro- priate inventory of supplies in the facility as well as below			manuals on good store-keeping practice includ- ing stock rotation and out-of-date stocks		
	2.3 First referral level	For drugs in group A:  a) keeping level of drug reserves constant*	store-keeper	- as above in 2.2	- as above in 2.2		
		For drugs in groups B and C	***				
		b) inspection of storage facili- ties in private sector for good store-keeping practice	as above in 1.3			A Park Control of the	

<sup>\*</sup>Drug reserve (minimum stock) means the amount of drugs kept in the store in order to cover delays in delivery or sudden increases in demand

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3. Distribu- tion of	3.1 Home	For drugs in all groups:					
drugs		a) administration of drugs to sick persons	responsible family member	- competence in proper administration of drugs including	information leaf- lets on drugs	y of the little	- facilities for health educa- tion programmes
				dosage scheme and side effects			- information on drugs as a part of general health education
		b) distribution of drugs and supple- ments to members	CHW volunteers	- as above and compe- tence in record- keeping	ras above and recording forms		
		c) recording and reporting		- as above, and competence in in record keeping reporting			
_	3.2 First health facility	A: For drugs in group A:					:
area na	racility	a) planning for regular distri- bution of drugs to outlets	nurse medical assis- tant physicians	- knowledge about the specific needs in areas to be covered	- as above in 3.1	- transportation facilities	- provision of volunteers for distribution of drugs
		<ul><li>b) distributing drugs as required;</li></ul>		- knowledge about system of distribu- tion			- provision of community-owned means of trans- port
		- patients - CHW and volunteers		- knowledge about means of transport available - knowledge about drug			<b>For C</b>
	[			reserve and emergency stock of outlets			

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
3. Distribu- tion of drugs (cont'd)		c) supervision of CHW's distribution of drugs d) recording		- competence in record- ing - competence in record- ing and reporting			
	3.3 First referral level	a) planning for regular distribution of drugs to outlets  b) distribution of	pharmacist physician	- as above in 3.2  - knowledge and competence about proper repackaging of drugs	- as above in 3.2 - packaging materials - manuals and	- as above in 3.2	- as above in 3.2
		drugs as required to: - pstients attending first refer- ral level			instruction on repackaging of drugs		
		- first health facilities  c) supervision of drug distribu- tion from first health facili- ties  d) repackaging of	7 K				

<sup>\*</sup>Drugs should be distributed in their original containers as far as possible as repackaging if not done properly may affect the quality of the drugs

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
4. Drugs utilization	4.1 Home	a) ensuring the pro- per utilization of drugs by the patient	responsible family member	- knowledge about dosage and schedule of drug	- leaflets about drugs supplied or acquired		- information through health education programme
		b) as above c) instructing the patient and family members about:	CHM volunteers	- knowledge of what to expect from a drug	- as above in 4.1		- training of volunteers
		- indications - adverse effects		- knowledge of signs and symptoms of adverse effects and poisoning and when			
		- when to stop taking the drug  d) observation of		to refer			
		the effects of drugs  a) reporting the					
	4.2 First	effects  a) giving or pre-		- as above in 4.1	- information		
	health facility	a) giving or pra- scribing drugs to patients attending the facility	nurse medical assis- tant physician	- supervisory skills	- information sheets on drugs	- monitoring and reporting system	
1		b) monitoring and assessing the result of treat- ment					

Activities	Level	Tasks involved	Person(s) responsible	Competence and knowledge required	Supplies and equipment	Logistic support	Community support
4. Drug utili- zation (cont <sup>†</sup> d)	4.2 First health facility	c) supervision for the proper utilization of drugs in lower levels					
		d) report to the next level on:					
		- side-effects - misuse of drugs					
	4.3 First referral level	a) as above in 4.2	physician	- appropriate medical and pharmacological knowledge - skill in evaluation	- textbooks - medical journals - information	- facilities for continuing education/ refresher courses	
				methodology	sheets on drugs	- consultant ser- vices of a clini- cal pharmacologist as appropriate	· · · ·
		b) evaluation of the drug reports from lower levels					
		c) preparation of reports on effi- cacy, safety and adverse reactions of drugs for highe levels (including	r				
		those drugs in the private sector and herbal medicines)					