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MEDIUM-TERM PROGRAM FOR THE DEVELOPMENT OF HUMAN RESOURCES

This presentation is made in compliance with Resolution WHA29.72 of the World Health Assembly, which last year endorsed the general proposals for the programming of human resources development and, at the same time, directed that a medium-term program be drawn up for this program area, with specific purposes and objectives and with indicators of results, for discussion at the meetings of the Regional Committees in 1977.

The exercise was taken by the World Health Organization, in close coordination with its Regional Offices—the Pan American Health Organization in this instance—as a pilot experiment for spelling out the VI General Program of Work in operational terms, that is, at a level of detail that could provide guidance for the annual programming of the activities reported in each country of a given region.

The Medium-term Program covers a six-year period from 1978 to 1983, as the VI General Program of Work does, and establishes goals and lines of activity with their respective performance indicators, which at the regional level are expected to become one of the main instruments for:

- a) Permitting early dialogue between the various structural levels of the Organization and improved coordination of activities.
- b) Channeling the resolutions of the Governing Bodies for the local implementation of continentwide policies.
- c) The general guidance of the Organization in its undertaking of commitments as the new programming scheme is developed in the discussions prior to the annual budget.

The present Program was drawn up with a multidisciplinary approach based on the consideration that, in the health sector, manpower development is not an end in itself, but has to be aimed at broader objectives dictated by the priorities established for actions in the health field. Accordingly,

the point of departure was the general objectives of the Ten-Year Health Plan for the Americas itself, with the paramount goal of extending the coverage of health services and specific priorities in the fields of nutrition, maternal and child health, communicable diseases and environmental sanitation.

These general objectives were correlated into a basic structure with areas of activity corresponding to the Human Resources Development Program, including the areas of planning and administration, institutional and program development for personnel training, and technological resources.

Based on the general situation in the Region, this mechanism made it possible to define quantifiable goals and lines of action or kinds of activity to be considered for the attainment of these goals. The document has thus become, with the necessary local adjustment, a guide to annual programming on the level of each country of the Region, and at the same time is permitting the development of regional activities in support of the local implementation of each country program.

Lastly, because the national programs have not been drawn up yet, a budgetary estimate based on the same goals and activities is presented as a guide to the feasibility of a regional program of broad support in the field of human resources in the health sector, drawn up in close adherence to the priorities set forth in the Ten-Year Health Plan for the Americas.

Annex

A M R O

MEDIUM TERM PROGRAMME

OF

H U M A N R E S O U R C E S

1978-1983

PAN AMERICAN HEALTH ORGANIZATION WORLD HEALTH ORGANIZATION JUNE 1977

(Third version)

AMRO-MEDIUM TERM PROGRAM FOR HUMAN RESOURCES DEVELOPMENT

1978 - 1983

A. INTRODUCTION

This document is a preliminary draft of the regional contribution to the Medium-Term Program (MTP) in the area of Human Resources for the period of 1978 to 1983. Its formulation, following the guidelines proposed by Headquarters could not involve in this first stage the participation of all-echelon staff because of the impossibility of training them in the handling of its methodology.* This first stage was in fact performed at the regional central office level and is only an indication of the main lines of work to be subsequently adjusted to local problems for effective country level implementation. The references to location and timing of activities are tentative only, as major changes are expected once the staff responsible for local action obtain the country authority's agreement for specific activities. For the same reason, budgetary estimates will have to remain flexible. Thus, the whole document should be interpreted broadly as a scheme to guide the final formulation of our biennial budget, to which necessary adjustments and country-by-country program needs should be incorporated when appropriate.

B. GENERAL CONSIDERATION

Having established the above premise, below are a few general considerations that influenced the formulation of the MTP program:

- (1) Technical cooperation. The strategic basis for the development of the program lay on the foundation of technical cooperation. This implies that national groups will play an important role in the coordination and execution of activities, and that the Organization's staff will work jointly with them in pursuing the targets accepted and incorporated by the country's policy.
- (2) National policies and plans, health services, educational institutions, training programs, community-health actions, development and utilization of appropriate technology constitute the framework of the activities described and will not be confined to isolated professions. Moreover, with the exception of a few references to environmental health, and dental and nursing personnel, the general trend of the program is definitely towards an interdisciplinary or multidisciplinary action.
- (3) As a consequence of the above, each activity should be seen as a whole and should be broken down for each level of involvement and each category of personnel related to the health structure and system of each country.
- (4) Although the description of activities in a given period of time suggests a starting point and a final one, their sequence should be cyclic according to countries individual stages of development, and in some cases, according to developmental stages in areas within the same country. In the latter instance, the finer details will have to be established in consultation with the countries during the different developmental stages of MTP.
- (5) The analysis of the existing situation in priority areas indicates that to meet the goals for manpower development, it is necessary to adopt the following objectives as a prerequisite for the implementation of the present program:
 - 5.1 Increase of the understanding, at country level, of the importance of developing coordination among educational and service institutions; of planning criteria, methodology, and educational research; and of developing scientific and technological information and instructional materials.
 - 5.2 Investigating the possibility, in the countries and with national groups, of carrying out these activities (including local production of appropriate technology).
 - 5.3 Securing permanent on-going financing at country level.

^{*}PWG/1/4 WHO, September, 1976

- 5.4 Analyzing the possibility of cooperation among national groups and among countries in order to achieve a greater multiplying effect.
- 5.5 Developing evaluation systems for continuing appraisal or determination at the end of the trial period, of the impact these programs have had on the general health conditions in the countries of the Region. This includes development of self-evaluation schemes by countries and national groups.

The outcome of the whole program will reflect countries' capability to analyze their own needs; execute projects; create and/or adapt appropriate technology; finance programs; apply self-evaluation and, lastly, will uncover the possibilities for vertical and horizontal cooperation.

C. ELABORATION OF THE MEDIUM-TERM PROGRAM

Based on the guidelines prepared by HQ, the regional preparation of MTP was instigated using and innovative approach through an interdivisional team, which in AMR, constitutes the HPS (Headquarters Program Subcommittee) of HR (Human Resources). This approach is consistent with the idea that the role of an international health organization should not be limited to providing education and training of personnel but that it should be extended to include support leading ultimately to the fostering of health activities.

Bearing this concept in mind, the targets to be defined in the three sub-areas agreed upon in Shiraz, Iran (Planning, Development, and Educational Support), must necessarily be considered in the context of the main priority areas established by the Organization's Governing Bodies. The Ten-Year Health Plan for the Americas clearly stated as focal point the "extension of coverage of health services to underserved populations" and established four specific priorities in (a) communicable diseases;
(b) maternal and child health; (c) nutrition; and (d) environmental health. This orientation adopted by our HPS and seconded by interdivisional objectives from the Divisions of Health Services, Family Health, Disease Control, Environmental Health, and Supporting Services, leads to a broad definition of the aims of the program, in relation of each one of these priority areas:

- (1) TO PROMOTE THE DEVELOPMENT OF ADMINISTRATIVE AND TECHNICAL PERSONNEL FOR THE DIFFERENT LEVELS OF HEALTH CARE WITHIN A REGIONALIZED HEALTH SYSTEM.
 - (1.1) TO ENCOURAGE THE ADOPTION OF APPROPRIATE TECHNOLOGY WITHIN INFORMAL SUBSYSTEMS IN THOSE HEALTH ACTIVITIES WHICH ARE CARRIED BY THESE SUBSYSTEMS -- THIS OBJECTIVE WILL BE IMPLEMENTED IN ACCORDANCE WITH THE ROLE EACH COUNTRY HAS ASSIGNED TO THESE RESOURCES -- AND THE PARTICIPATION OF THE COMMUNITY THROUGH HEALTH EDUCATION AND THE DEVELOPMENT OF MEDICAL SKILLS.
- (2) TO STIMULATE THE QUANTITATIVE AND QUALITATIVE DEVELOPMENT OF HEALTH PERSONNEL AT ALL LEVELS AND CATEGORIES TO MEET HEALTH CARE MEEDS AND THE PROBLEMS
 OF PROTEIN-CALORIE MALNUTRITION IN THE MOTHER AND CHILD, SPECIALLY IN EURAL AREAS AND THE OUTSKIRTS OF URBAN CONGLOMERATES. EMPHASIS ON TRAINING WILL
 BE PLACED ON PROMOTIONAL PREVENTIVE ASPECTS, EARLY IDENTIFICATION OF HEALTH RISKS, REFERRAL, AND SPECIALIZED CARE.
- (3) TO ENCOURAGE THE DEVELOPMENT OF PERSONNEL REQUIRED FOR THE CONTROL OF PREVAILING COMMUNICABLE DISEASES; BASIC AND REFERRAL LABORATORIES; DATA COL-LECTION, AND EPIDEMIOLOGICAL SURVEILLANCE.
- (4) TO ESTABLISH PROGRAMS FOR THE TRAINING OF ENVIRONMENTAL HEALTH PERSONNEL WITH EMPHASIS ON THE MANAGEMENT OF HUMAN ECOLOGY AND HEALTH PROBLEMS, OCCUPATIONAL HAZARDS, DEVELOPMENT AND IMPLEMENTATION OF SUITABLE ENVIRONMENTAL SANITATION TECHNOLOGIES. THESE PROGRAMS ARE BASICALLY INTENDED FOR BURAL AND MARGINAL CITY AREAS.

These objectives were then confronted diagrammatically for each program area, with the specific targets in a matrix allowing the description of the situational analysis, which ultimately will orient the selection of activities to be performed in close relationship with the priority problems of the health sector.

In a second step, sets of activities were compiled following two different approaches: the first led to a rather detailed and bulky document, impractical for routine use and the second, to a format defining general lines of work which only countries will need to expend further for implementation. This second approach appears more practical

in view of the total amount of programs to be handled at country level, once the Organization have MTP for all Divisions. The same considerations will also be applicable to the third part of the document which relates to activities, locations and requirements.

D. SITUATION AMALYSIS

This analysis has been made on the basis of the interdivisional objectives, aiming at a description of the situation of each one of the four priority areas of the Organization's program in regard to those aspects directly related to human resources planning, development, and administration.

(1) Interdivisional Objective 1 and 1.1

In 1977, the population of Latin America and the Caribbean will reach 340 million, of which 47% is settled in the rural areas. It is estimated that 40% of the total population has no practical access to health services. At present, there are different ways of confronting the problem of health for underserved populations. First of all, there is a general shortage of human resources to extend the coverage of the services, and the health personnel at peripheral areas is not trained to develop community work and obtain its participation. Some countries have attempted to tackle this problem by establishing regionalized health care systems with clearly defined levels of care and are promoting the development in rural and peripheral areas of primary health care. It is expected that in the coming few years most countries will follow the same line.

The occupational structure is marked imbalanced toward higher levels, oriented to individual care, and concentrated in larger urban areas. There is a marked insufficiency of personnel at the intermediate level and training for this personnel, as well as for auxiliaries, is inadequately structured, organized and recognized. Professional schools in general, and schools of public health, in particular, need to be strengthened and their training programs reoriented and updated. At the present time, only very few countries have systems for training technical and administrative personnel for the different levels of health care in a regionalized system. In most countries, there are some isolated attempts which do not constitute a specific educational policy, especially when confronted with reality in health practices which is often completely opposite (multi-systems, predominant curative medicine practices, etc.). This fact is much more evident on the professional level. Intermediate and auxiliary level training programs are much more suited to the needs of the health services because of their in-service nature. In Latin America, at the present time, there are approximately 110 dentistry schools, 174 medical schools, 258 nursing schools, 28 nurrition institutes, 65 veterinary medicine schools, 27 health management schools, 13 sanitary engineering schools, 79 obstetrics schools, 22 schools for laboratory techniques, 13 X-ray techniques schools. There are many courses for in-service training for the last two categories of medical technicians and for health auxiliaries. The student population, not including students in courses for auxiliaries, exceeds 3,000,000.

In these institutions, many efforts have been undertaken to implement educational development programs using modern educational technology which facilitates a more effective teaching/learning process. Above all, attempts have been made to respond to the great demand for health science courses in the Region by providing different solutions. All of these nonsystematized efforts have basically come as a response to educational demands made by the training institutes. More recently, greater cooperation between the service institutions and the training institutes has led to the implementation of educational development programs that introduce the concept of integrated teaching and assistance, or work and education, in order to incorporate the student into work in the health field at an early stage. This integration requires new agreements based on plans for action developed in activities in the health services and requires an actual element of service. Therefore, self-instruction and evaluation procedures based on performance and not simply on knowledge are encouraged. The preceding program is much more necessary on the technical and auxiliary levels because the number of people who must be trained requires "large scale" training procedures if the demand for personnel is to be met in a short time.

If we relate this change in the teaching/learning process to participation of informal subsystems and the general community, then procedures such as adult education and psychosocial methods in general education, which have been adapted to the health field, must be incorporated into the program. At the present time, these aspects are rarely applied in this field. Suitable instruction materials must be entirely developed in the teaching/learning process, both in training and in adapting personnel to the health service's new requirements (continuing education). In most cases, such material is either lacking or is insignificant. PAHO/WHO Programs of Medical and Nursing Textbooks can be noted as initial or pilot models. Educational material has been produced sporadically in these countries, but distribution and use of such material has not been systematized. There is much less material for use on informal subsystem and community levels.

By 1977, all countries have established some mechanisms, formal or informal, for the coordination of manpower training and its utilization by the health services.

Fourteen countries of Latin America and the Caribbean have recently established, in the Ministries of Health, divisions or departments of human resources with overall responsibility for the health manpower coordination and planning at the national level. It is expected that in the coming few years, most of the countries will establish and develop their manpower units.

In the field of manpower administration, the management of Human Resources is generally carried out under a narrow approach of administration of personnel. The progressive integration of the health sector and the definition of levels of services in schemes of regionalization, will require a substantially different approach.

Many elements of the present management of personnel are insufficiently developed, such as regulations for civil service in the health sector, salary scales, administrative practices. Some elements—which are vital in a Regionalized Health System, such as staff development, career ladders and lattices, are unexistent. In all countries, there is a scarcity of personnel trained in health care administration. Seventy percent of the hospitals with moren than 100 beds are under the direction of staff with no training in administration.

A last limitation has important bearing on the health care administration. Most educational and training programs are oriented towards hospital administration and do not fully prepare the administrator for his role in the whole network of a Regionalized Health System or for his role in the integration of teaching and services.

No country has an operational policy for the training of personnel in health care administration. Similarly, the policies for the utilization of personnel in health care administration are insufficiently developed. With few exceptions, incentives to attract and retain professional personnel in health care administration, such as career opportunities, salary scales, and continuing education, are not developed.

In the field of continuing education, a survey of 23 countries has shown a complex situation where the numerous activities of continuing education-most of them being either sponsored or financed by the Ministries of Health and executed in cooperation with universities--respond in fact to the scientific interests of the professionals rather than to the needs of the services. Most of the 155 programs of continuing education identified in Latin America and the Caribbean, are circumstantial and episodic activities, executed in a strict profession by profession approach and they reach each year an average of less than 5% of the health personnel. Continuing education programs do not intend to reach the community nor any of the workers of the "Informal Subsystem" of health care delivery.

An important aspect of the overall inadequacy of the training programs, as well as of the continuing updating of knowledge in the field of health is the lack of modern methods for compilation, analysis, and dissemination of scientific and technological information which could provide encouragement and support for the necessary changes.

The Regional Library of Medicine and the Health Sciences (BIREME), and its network of regional libraries are initiating efforts in this respect. At the present, these libraries include 10 National Information and Documentation Centers (CNID) which operate relatively efficiently. Through this system, attempts are being made to disseminate selective information in fields related to health services, regionalized systems, extension of coverage, primary care, and other services. Relatively affective levels of dissemination have not yet been achieved. Even less has been done with information regarding Latin America's recent experiences, and there is even less information on the involvement of informal subsystems and participation of the community itself.

Among personnel serving in Latin America at the present time, there are more than 700,000 potential users of information on different levels. The medical level alone includes more than 200,000 users.

(2) Interdivisional Objective 2

Most of the limitations mentioned under the first interdivisional objective area (1 and 1.1) -- that is in relation to the global health manpower and the overall network of services -- are equally valid for the specific personnel and services of maternal and child health, nutrition, mental health, and other component of family health programs. In addition, some specific limitations or drawbacks affect particularly the family health activities.

In the field of manpower coordination and planning, the main drawback is the incomplete assessment of manpower requirements for maternal and child health, nutrition, family planning, and other activities. As a consequence, these activities are performed by general health personnel--which is often scarce and unprepared--or worse, these activities are not satisfactorily performed or not performed at all.

Even when manpower requirements for the basic programs are determined, this determination is rarely done according to the several levels of care of a regionalized network of services, which is one of the proposed objectives. Elementary activities to be performed by the community itself are not defined; as a consequence, the requirements for health personnel in primary care cannot be established and, in turn, the number and quality of technicians, professionals and specialists needed at the other levels to attend the referrals, supervise and orient the primary care personnel cannot be determined. This results in a very loose planning and programming of the personnel and a haphazard conduction of programs.

Training of personnel in most countries of the Region, does not take into consideration the range of activities and health actions presently being applied or in the process of further development at the level of the health services in dealing with specific priority areas such as maternal and child care and nutrition. These subjects are not clearly identified in the curriculum of the different professions and the resources available to teach them are not sufficiently strengthened by the educational institutions, once they are more oriented to activities related to individual and curative care. Yet, the educational programs on these matters does not provide enough involvement on field experience at community level. The lack of coordination among the professional schools and some specialized institutions in the area (e.g. institutes of nutrition) has prevented the utilization of higher qualified personnel in the training of specialized administrators and supervisors in quantity and quality demanded for the extension of coverage of health services to underserved population. Community health workers in the area are not adequately trained for dealing with problems of protein-calorie malnutrition especially in mothers and children.

In the field of family health, the need for dissemination of selective information is obvious and some attempts have been made in this respect. These attempts have been basically concerned with the maternal and child element and, to a lesser degree, with the nutrition problem. In addition to the schools of medicine and nursing which have incorporated maternal-child aspects into their curricula, there are presently 28 schools of nutrition and 79 schools of obstetrics with very weak educational development programs. The use of modern educational technology and materials concerning the maternal-child and nutritional fields has been attempted on the undergraduate medical and nursing levels, but has been sadly ignored in the nutrition and obstetrics schools. There is an evident lack of instructional material for the technical and auxiliary level, especially material on community participation. At the present time, there are 100,000 students in both nutrition and obstetrics with a possible demand in the family health field for 269,000 health workers.

It should be pointed out, however, that in this particular field, a very active program of continuing education has been developed in Latin America and many specific programs already exist in maternal and child health, nutrition, family planning, pediatrics, obstetrics, cancer screening, mental health, etc. Only two limitations diminish the returns of the programs of continuing education:

- Most of the programs are conducted for only one of the members of the health team and do not reach the other members.
- Host of the programs are not delivered through the structure of the health services and do not reach the personnel serving in the peripheral areas. As most maternal and child health family programs are still conducted as vertical programs -- and the specific financing of the family planning agencies aggravate this tendency -- the activities of continuing education may not be integrated in the overall services and must suffer from alternatively abundant and short funding.

In the field of administration, despite the efforts made for the training of administrators for maternal and child health and family planning programs, the shortage of qualified health administrators at the intermediate and lower level of services -- or the poor understanding that administrators have of family health care -- is a serious limitation for the development of the programs.

(3) Interdivisional Objective 3

Similarly to the previous chapter, some of the comments made on family health programs and personnel are applicable to specific disease control programs --non-integration in the health services, verticality of programming and financing, extreme specificity of the technical field, etc. The same difficulties can be identified in this area.

In manpower coordination and planning, the requirements of personnel for the programs are not determined by any planning mechanism. This results in shortages, overlapping of functions, unspecific training, poor performance.

Some scheme of extension of coverage give a fundamental importance to the peripheral network of laboratories as a first backing up activity for primary care. Several health services are conscious of the necessity to plan the manpower for laboratory services and it is expected that this crucial area will soon be a matter of general concern.

The health personnel working in the field of disease control, particularly those involved in main programs of control and eradication of prevalent diseases (e.g. malaria, tuberculosis, onchocerciasis, schistosomiasis, etc.), have valuable experience in the contact with the communities. Nevertheless, for reason of the vertical structure of these programs their activities have been restricted to direct aspects of the campaign against specific diseases. As a consequence, new training programs should prepare this personnel in a more comprehensive work, in better coordination with primary health services. Infectious and chronic diseases are not well registered through data recorded in the countries. The principal factors affecting this problem are: lack of simple surveillance systems at peripheral levels and regionalized reference laboratories that could be used in the diagnosis of principal diseases. As the health systems improve in the control of diseases, it will be necessary that health personnel be trained for the accomplishment of these tasks. Health activities at peripheral level together with community participation should have the approach of control and promotion and not solely as care for those demanding services. For this, a major change has to be introduced in the training programs, particularly for those acting as supervisors of health programs.

The Region has always been concerned with the dissemination of information about communicable diseases. This information is valuable because of the similarity of conditions in the Latin American and Caribbean countries. Some valuable efforts have been made to disseminate information (for example, PABO/WHO scientific publications, the Manual of Infectious Diseases, etc.). However, the dissemination of information concerning the most recent advances in the world or even in the Region has not been systematized. The undergraduate level sometimes approximates this program, but efforts are generally inconspicuous and isolated within the overall training process. In some cases, the introduction of modular teaching, diseases oriented curriculum, typical problems of the more communicable diseases or actual health problems encountered at countries' level has provided the students with a greater understanding of the problem.

Epidemiological concepts, epidemiological surveillance and more efficient management of laboratory tests should be basic elements of the training process. In order to implement all of these aspects, it will be necessary to encourage the development of interdisciplinary teaching units that focus mainly on communicable diseases. Modern educational technology will be used to make these courses more efficient. Similarly, the preparation of suitable instructional materials is indispensable. Due to the great number of actual situations typical of the countries of the Region, these materials whould be produced locally.

In the field of continuing education, relatively few programs reach the malaria workers or the rural auxiliaries in charge of the control of parasitic diseases.

Very few programs reach the general health personnel--auxiliaries, nurses, physicians, pharmacists--to deliver useful education or information on communicable disease control and to develop a positive attitude toward disease control programs.

In the field of manpower administration, even though some programs have a remarkable administration of personnel, the majority of such personnel is not under a positive management that allows or elicit human resources development.

In the field of health care administration, very few administrators at the intermediate and lower level, are trained and prepared to give full support to disease control programs or to give full recognition to laboratory services and their importance in the extension of coverage.

(4) Interdivisional Objective 4

Because of their specificity and their non-medical staffing, the programs and activities of environmental health are not always included in the manpower planning nor in the programs of continuing education of the Ministries of Realth.

In the field of manpower coordination and planning, there is an interest in most countries to conduct surveys of environmental health personnel and improve its planning.

A major priority in this field has been assigned to water supply, solid waste disposal, and environmental pollution. Specific information on the levels of staff and training requirements for each of these categorical areas is limited. Presently, there is no training program in existence that is organized or planned to reach all personnel working in water supply, sewerage, and solid waste services. It is also evident that it is virtually impossible to expect that the necessary staff will be trained with present practices and within the structures and approaches in use, and this indicates that all personnel in the health services should receive some basic training on environmental health, as well as the need for improving the training and utilization of intermediate and auxiliary level personnel in the area.

Some environmental health activities are presently being developed in the information field such as a network of information centers in environmental health and the sanitary engineering and human ecology centers. A closer relation between these centers and the Regional Network of National Information and Document Centers is necessary. At the present time, there are 13 sanitary engineering training programs, more than 45 graduate courses and an undetermined number of in-service training courses for technical and auxiliary personnel in environmental health. So far, educational development programs, and especially modern educational technology, have not been incorporated into these courses. In its plans, CEPIS will try to meet this goal, but will require specialized assistance. Similarly, it is necessary to develop instructional material, especially manuals and audiovisual side for technical and auxiliary personnel.

In the field of continuing education, a pressing need is felt to prepare and execute programs of continuing education for specialized personnel--sanitary engineers, sanitary inspectors, water systems operators, auxiliaries of sanitation. Similarly, the need is felt for continuing education programs directed to the general health personnel -auxiliary, nursing personnel, pharmacists, physicians, as well as social workers, educators and the community itself--to update the knowledge of environmental health and human ecology required by each level and profession and develop a favorable attitude that would strengthen environmental health programs. More specific continuing education is needed in special areas such as accident prevention, occupational health, etc.

In the field of manpower administration, the same remarks made for other programs are equally valid.

CHRONOGRAM OF ACTIVITIES AND OUTPUT INDICATORS

TARGET 1.1: BY 1983, 75% OF THE COUNTRIES IN THE REGION WILL HAVE ESTABLISHED EFFECTIVE COORDINATION BETWEEN EDUCATIONAL AND SERVICE INSTITUTIONS ENGAGED IN HEALTH ACTIVITIES, AS MEASURED BY EVIDENCE OF A GREATER NUMBER OF PROGRAMMES BASED ON COMMON POLICIES, RESOURCES AND GOALS.

			•				
	1978	1979	1980	1981	1982	1983	
ACTIVITY: 1.1.1	PROMOTION OF DIALOGUE AMONG AL	L SECTORS INVOLVED IN HEALTH SE	RVICES AND MANPONER DEVELOPMENT				
	Follow up of proposals and recommendations of the 1977 Regional Meeting on Education and Health Care.	approaches in the preparation of the World Conference in Medical Education.	Education.	recommendations of the World Conference on Medical Education.	ucational and services inputs to the Pan American Conference on Health Manpower Planning.		
	Promotion of multisectorial	approaches to the study of hea	alth services and health manpowe	r - Promotion of joint task for	ces: PAHO-ILO-OAS-UNESCO, for	the study of upcoming issue	
Output Indicators			Quantitative and qualitative participation in the World Conference on Medical Education.				
	Quantity and qua	lity of advisory ser	vives rendered to the	he countries for the	development of integ	rated programs.	
ACTIVITY: 1.1.2	PROMOTION OF STUDIES BY NATION	IAL GROUPS ON COORDINATION BETWE	EN HEALTH SERVICES AND MANPOWER	DEVELOPMENT MECHANISMS			
	Support to nat	ional studies o	on health servi	ces and manpowe	r development.		
	Coordination between activities 1.2.3 (Manpower Flanning), 1.4.1 (Career Schemes), 1.4.3 (Utilization of Personnel), 2.1.2 (Criteris for Training Programs), 2.1.4 (PLADES to produce materials and knowledge that will stimulate national studies in coordination between health services and manpower development.						
Output Indicators	Number and qualit	y of national studie	s on coordination me	chanisms between hea	lth services and man	power development.	
ACTIVITY: 1.1.3	DEVELOPMENT OF MECHANISMS FOR	COORDINATION OF HEALTH SERVICES	S AND MANPOWER DEVELOPMENT				
			merican Program on Educational				
	framework of health services; and support other regional (su	nerticination of teachers and s	rial committees for the coordins students in the health care deli effect, as to create in the cou rity of existing committees.	very and realization of integra	ited research - The intersector	rial committees airi bromore	
	Promotion of the participation of teaching institutions in health mampower planning		Continuation.	Promotion of interimitational planning groups in 4 countries.	Technical cooperation between the 4 interinstitutional planning groups.	Promotion of participation of teaching institutions in health manpower planning.	
	processes.	Two seminars on manpower coor dination and planning for teaching institutions. Areas IV and V.	Two seminars on manpower coor dination and planning for teaching institutions. Areas II and VI.				
			Preparation of the manpower units of the Ministries of Health for interinstitutional participation in planning.	Continuation. Coordination with activity 1.2.1 and 1.2.3.	Continuation. Coordination with activity 1.2.3.		
Output Indicators		Number and productivity of co ordination committees.		Number and productivity of coordination committees.		Number and productivity of coordination committees.	
	Quality of the coor	idination obtained be	tween institutions e	ngaged in health ser	vices and health man	power development.	

TARGET 1.2: BY 1983, 60% OF THE COUNTRIES IN THE REGION WILL HAVE IMPROVED ITS HEALTH MANPOWER PLANNING CAPABILITY AS EVIDENCED BY AN INCREASED NUMBER OF COUNTRIES DEVELOPING SOUNDLY BASED NATIONAL HEALTH PLANNING, INCLUDING THE PREDICITION OF MANPOWER REQUIREMENTS.

	19/8	1979	1980	1981	1982	1983				
ACTIVITY: 1.2.1	DEVELOPMENT OF MANPOWER PLANNI	NG METHODOLOGY								
	Workshop on the assessment of Human Resources of the Infor- mal subsystem.	Workshop on Health Manpower Policy Analysis and Formula- tion.	Workshop on Health Manpower Standards Analysis and Formu- lation.	Workshop on Educational Na- tional Planning and its Rela- tions to Health Manpower Planning.	Workshop on Analytical and Formulation Techniques in Health Manpower Plans.					
	Develo	pment of methods for the determ	ination of health manpower requ	irements in priority areas and	preparation of staffing guidel	ines.				
	.MCH and nutrition .Laboratory services .Water supply and sewage	.NCH and nutrition .Laboratory services .Occupational health	Comprehensive family health Disease control	.Family health .Disease control .Administation	.Family health .Disease control	.Family health .Disease control				
Output Indicators	Methodological and staffing guidelines prepared.	Methodological and staffing guidelims prepared.	Methodological and staffing guidelines prepared.	Report prepared and published.	Methodological and staffing guidelines prepared.	Staffing guidelines completed.				
ACTIVITY: 1.2.2	INFORMATION SYSTEMS TO MONITOR	REQUIREMENTS								
	Improvement of data collection storage and retrieval in 7 countries.	Improvement of data collection storage and retrieval in 10 countries. Development of standard ana- lytical processing in 5	Improvement of data collection storage and retrieval in 3 countries. Development of standard ana- lytical processing in 7	Improvement of data collection storage and retrieval in 2 countries. Development of standard sna- lytical processing in 4	Development of standard ana- lytical processing in 2	Development of standard ana- lytical processing in 2				
	Determination of health man- power requirements in 3 countries.	countries. Determination of health man- power requirements in 8 countries.	countries. Determination of health man- power requirements in 10 countries.	countries. Determination of health man- power requirements in 5 countries.	countries. Determination of health man- power requirements in 1 country.	countries.				
Output Indicators	Number of health manpower in- formation systems, require- ments and forecast established	Number of health manpower in- formation systems, require- ments and forecast established	Number of health manpower in- formation systems, require- ments and forecast established	formation systems, require-	Number of health manpower in- formation systems, require- ments and forecast established	Number of health manpower in- formation systems, require- ments and forecast established				
ACTIVITY: 1.2.3	MANPOWER POLICY ANALYSIS AND I	AMPOWER POLICY ANALYSIS AND PLANNING								
	Subregional seminar on Health Manpower Planning for Central America.	Subregional seminar on Realth Manpower Planning for the Andean Area.	Subregional seminar on Realth Manpower Planning for the Caribbean Area.	Subregional seminar on Health Man power Planning for Areas V and VI.	Preparation of the II Pan American Conference on Health Manpower Planning. (PACHMP)	Final preparation, realization and follow-up of the II PACHMP.				
	Development in 3 countries.	in 8 countries. Development in 8 countries.	in 12 countries.	in 15 countries.	for mulation in 2 countries. nd for mulation in 7 countries.	Overall planning for 1984-89.				
		f or in 2 countries.	mulation o in 12 countries.	f health main 13 countries.	an power pl in 15 countries.	ans in 15 countries.				
Output Indicators	Programs of work established in Central America.	Progrems of work established in the Andean Area.	Programs of work established in the Caribbean Area.	Programs of work established in Areas V and VI.	Guidelines for the preparation of basic documents for the II Pan American Conference on Health Manpower Planning (PACHAP) issued.					
		Number of countries having eg- tablished the different el- ements of the health mampower planning process.	Number of countries having established the different elements of the health manpower planning process.	Number of countries having es- tablished the different el- ements of the health mampower planning process.	Number of countries having established the different elements of the health manpower planning process.	Number of countries having eg tablished the different el- ements of the health manpower planning pmocess.				
ACTIVITY: 1.2.4	TRAINING IN HEALTH MANPOWER PL	anni ng								
	First course on Resith Man- power Planning,	Second Course on Health Man- power Planning and evaluation	Third course on Health Man- power Planning. Two training sessions in spe- cialized aspects of health manpower planning.	Fourth course on Health Man- power Planning and evaluation Two training sessions in spe cislized aspects of health manpower planning.	Two training sessions in specialized aspects of health manpower planning.	Two training sessions in specialized aspects of health manpower planning.				
Output Indicators	Course completed.	Course and evaluation com- pleted. New program prepared	Course and training sessions completed.	Course and training sessions and evaluation completed.	Training sessions completed.	Training sessions completed.				

TARGET 1.3: BY 1983, 70% OF THE COUNTRIES IN THE REGION WILL HAVE DEVELOPED ITS MANAGEMENT TRAINING CAPABILITY AS EVIDENCED BY THE INCREASE AND IMPROVEMENT OF EXISTING PROGRAMMES IN THE AREA LEADING TO AN INCREASE IN THE NUMBER OF COMPETENT HEALTH SERVICES MANAGERS, AND THEIR UTILIZATION.

	1978	1979	1980	1981	1982	1983				
ACTIVITY: 1.3.1	EVALUATION AND SUPPORT OF EXI	STING PROGRAMS FOR MANAGEMENT T	RAINING			· · · · · · · · · · · · · · · · · · ·				
		Educational Support to existing training programs in Health Care Administration								
	Publication of periodic direc Administration Education. De materials.	Publication of periodic directories in Health Care Administration Education: Training programs, faculty and research. Periodic publication of a bulletin in Health Care Administration Education. Development of education technology: libraries, textbook program in Health Care Administration. Clearinghouse and dissemination of educational materials.								
		Workshop on "library role and policies"	Workshop on "library users sensibilization"	Workshop on "librarian train- ing"	Workshop on "library and biomedical information systems"	Workshop on "library evaluation methods"				
	Workshop on "teachers evalu- ation and profiles"	Workshop on "task analysis techniques"	Workshop on "objectives analysis and instructional goals"	Workshop on "microeducation technique"	Workshop on "teaching material development"	Wereshop on "use of audiovisual"				
	Paculty specialization: identification of needs and resources	Workshops for faculty members.	Specialization of faculty thr	ough academic training and int	ercountry exchange of faculty.	1				
		<u>Tech</u>	nical Support to existing train	ing programs in Health Care Ad	ministration	1				
	Intercountry workshop on "primary care, ambulatory and emergency care for the extension of coverage"	Intercountry workshop on "community participation and organization behavior"	Intercountry workshop on "cost containment and control"	Intercountry workshop on "industrial relations"	Intercountry workshop on "information systems and electronic data processing"	Intercountry workshop on "functional planning and design of health facilities"				
	Intercountry task force on "health care organization"	Intercountry task force on "social science in health care administration"	Intercountry task force on "financial management"	Intercountry task force on "personnel administration"	Intercountry task force on "qualitative methods in health care administration"	ln:ercountry task force on "h:spital maintenance and b:mmedical engineering"				
Output indicators	Workshops completed. Report issued	Workshops and task forces completed. Reports and directories issued	Workshops and task forces completed. Reports and directories issued	Workshops and task forces completed. Reports and directories issued	Workshops and task forces completed. Reports and directores issued	Workshops and task forces completed. Reports and directories issued				
ACTIVITY: 1.3.2	SELECTION, PLANNING AND SUPPORT OF REGIONAL AND SUBREGIONAL PROGRAMMES FOR MANAGEMENT TRAINING									
	Development of Advanced training centers in Health Care Administration									
	Survey of possible host institutions. Preparation of proposals and plans of operation for two advanced training centers	Planning and implementation of two centers. Launching of training programs								
	Continuation of support to three advanced training centers in Brazil, Colombia and Mexico	Support of activities in the five training centers in the area of field experience residency	supervision of thesis and mono	graphs, research activities, c	ining centers: Training of fac urriculum review, educational t five centers. Programming of	echnology, permanent				
		Inte	gration of training and service							
	"In-service training" in Health Care Administration: Study of baseline situation	Workshop for the "in-service training" teachers	Follow-up of workshop and support of activities	Workshop for the "in-service training" teachers	Follow-up of the workshop and support of activities	of "in-service training"				
	Intensive training in Health Care Administration: Identification of needs and resources	Intensive course for health care mid level executives	Intensive course for health care mid level executives	Intensive course for health care mid level executives	Intensive course for health care mid level executives	Incensive course for health care mid level executives				
	Independent study programs in Realth Care Administra- tion: Identification of needs and resources	Definition of objectives Design of curriculum Preparation of materials	Independent Study Program Phase I, program 1	Independent Study Program Phase II, program 1 Preparation of Phase I, program 2	Evaluation of program I	Exclusion of the Independent Study Programs 1 and 2				
	Training of Practitioners/ Directors - Preparation of seminars	Three seminars in 3 countries	Four seminers in 4 countries	Five seminars in 5 countries		Evaluation of seminars for practitioners/directors				
	Development of new models of health care delivery systems: preparation		Construction and test of Model I	Bvaluation of Model I. Country selection and data collection of Model II	evaluation of Model II	Decision on changes in the health care delivery system according to models				
Output indicat	Plans of operation completed	Five centers in operation	Effective support 5 centers		Effective support to 5 centers	Course tehop and seminars				

TARGET 1.4: BY 1983, 50% OF THE COUNTRIES IN THE REGION WILL HAVE ESTABLISHED CAREER DEVELOPMENT AND CONTINUING EDUCATION AS EVIDENCED BY CLEARLY DEFINED CAREER STRUCTURES FOR HEALTH PERSONNEL LINKED TO COMPREHENSIVE NATIONAL PROGRAMMES OF IN-SERVICE EDUCATION.

ſ			1980	1981	1982	1983		
ACTIVITY: 1.4.1	ASSESSMENT OF EXISTING PATTERN	S OF CAREER DEVELOPMENT AND DES	IGN OF ALTERNATIVE SCHEMES					
		Regional study on career pat- terns in health occupations.	Workshop on career patterns in the Regionalized Health System	Preparation of guidelines for the design of career ladders and lattices in the Regional- ized Health System.	Technical cooperation with the the field of career de	e Ministries of Health in evelopment.		
Output Indicators		Study completed.		Guidelines prepared and distributed.	Career development patterns established in the countries.	Career development patterns established in the countries.		
ACTIVITY: 1.4.2	DEVELOPMENT OF PROCEDURES TO I	MPLEMENT ALTERNATIVE SYSTEMS OF	CONTINUING EDUCATION					
	Technical cooperation with the existing programs of continuing education							
	Strengthening of existing programs.	Coordination and synchroniza- tion between programs in each country.	Extension of geographic cover age of the programs.	Expansion of scope of the programs.	Incorporation of continuing education in the informal subsystem.	Progressive decentralization of programs.		
		•	Regional Program of Continuing	Education for Health Personnel				
		tion, execution, and evaluation Ecuador - Establishment of one						
	Preparation of country projects of Group B.	Phase I - Group B - Implementa Bolivia, Dominican Republic, N		of programs in 4 countries:				
Negotiation of Phase II. prep- Phase II - Group aration of country projects of Group C: Cari Group C.								
			Preparation of country projects of Group D.	Phase II - Group D - Implement countries of Group D: Costa B		on of programs in 4		
	Development of Co	ntinuing Education Programs for	all categories of personnel in	priority areas: family health	, disease control, environments	al he alth		
ļ.	Preparation of a first cycle of continuing education in MCH and nutrition.	Testing and utilization of the first cycle in 6 countries.	Preparation of a second cycle in MCH and nutrition, and environmental sanitation.	Utilization of second cycle in 3 countries.	Expansion of the cycles to comprehensive family health and environmental health.	Incorporation of continuing education cycles in the country programs in 16 countries.		
	Environmental sanitation.	Preparation of a first cycle in communicable diseases, laboratory, and malaria	Testing of the first cycle in communicable diseases in 3 countries.	Preparation of a second cycle in disease control.	Utilization of second cycle in disease control in 3 countries.			
	Percentage of health personnel reached in each country by any alternative scheme of continuing education.		Percentage of health personnel reached in each country by any alternative scheme of continuing education.	Percentage of health personnel reached in each country by any alternative scheme of continuing education.	Percentage of health personnel reached in each country by any alternative scheme of continuing education.	Percentage of health personnel reached in each country by any alternative scheme of continuing education.		
ACTIVITY: 1.4.3	DEVELOPMENT OF SCHEMES FOR THE	MONITORING OF THE UTILIZATION	OF HEALTH PERSONNEL	· · · · · · · · · · · · · · · · · · ·				
	Regional study on health man- power expenditures.	Workshop in health manpower economics.	Preparation of guidelines for the analysis of manpower in- vestments and recurrent costs.	Technical cooperati		n with the Ministries of Health in the field of health manpower economics.		
1	Workshop on manpower manage- ment and administration of personnel.	Comparative study on patterns of manpower administration.	Preparation of guidelines on manpower management	Preparation of guidelines for the review of salary scales.	Technical cooperation with th the field of manp			
	Study completed. Report issued.	Report issued. Study completed.	Guidelines prepared.	Guidelines prepared.	Guidelines prepared.	Guidelines prepared.		

TARGET 1.5: BY 1983, 30% OF THE COUNTRIES IN THE REGION WILL HAVE PROMOTED THE DISCOURAGEMENT OF UNDESTRABLE MIGRATION OF HEALTH PERSONNEL AS EVIDENCED BY THE LOCATION AND RETENTION OF THEM IN THE COUNTRIES, AND PLACES WITHIN THE COUNTRIES, WHERE THEY ARE MOST NEEDED.

	1978	1979	1980	1981	1982	1983			
ACTIVITY: 1.5.1	ASSESSMENT OF PRESENT SYSTEMS	ESSMENT OF PRESENT SYSTEMS OF MUTUAL RECOGNITION OF QUALIFICATIONS AND DIPLOMAS							
	Technical and budgetary pre- paration of an Inter American study on certification.	Inter American study on certi- fication in selected fields.	First Working Group on Certification in selected fields.	Expansion of the Inter American Study on Certification.	Second Working Group on Certification.				
Output Indicators	Protocol established and budget secured.	Study completed.	Report on certification issued.	Second round of the study completed.	Final report issued.				
ACTIVITY: 1.5.2	DEVELOPMENT OF STRATEGIES TO	CONTROL UNDESTRABLE MIGRATION AND	ND COOPERATION WITH COUNTRIES	IN IMPLEMENTING THEM					
		Seminar on the study of health manpower migration.		Caribbean Conference on Health Manpower Migration.					
	Technical c	ooperation between th	e countries in close	association with ac	tivity 1.4.1 and 1.4.3.				
Output Indicators	Т	echnical cooperation	given to the countri	es in response to s	pecific requests.				

LARGET 2.1: BY 1983, AT LEAST 60% OF THE COUNTRIE. THE REGION WILL HAVE DEVELOPED OR STRENGTHENED E. ATIONAL INSTITUTIONS WITH EMPHASIS ON THE INTERMEDIATE AND AUXILIARY LEVELS, AS EVIDENCED BY THE INCREASE OF TOTAL HEALTH PERSONNEL, PARTICULARLY THOSE IN CHARGE OF PRIMARY HEALTH CARE SERVICES TO UNDERSERVED POPULATIONS.

	D jet	1 3 <u>1</u> 3	1980	1981	1982	1983
ACTIVITY: 2.1.1	COLLECTION, MAIN	TENANCE AND DIS	TRIBUTION OF INF	ORMATION REGARD		STITUTIONS
	-Continuing updating -Preparation of Regional Directory of Schools of Me- dicine and Public Health.	information on trai -Preparation of Regional Directory of Schools of Nurs- ing and Midwifery.	-Preparation of Regional			ducation.
Output Indicators	-Continuing updat -Issue of Regional Directory.	ing information Issue of Regional Directory.	on training prop -Issue of Regional Directory. -Updated listing refered to Headquarters.	-Issue of Regional Directory.	I and auxiliary -Issue of Regional Directory. -Updated listing refered to Headquarters.	personnel -Issue of Regional Directory.
ACTIVITY: 2.1.2	ESTABLISHMENT OF CRITERIA	FOR AND SUPPORT TO THE	DEVELOPMENT OF NEW TRAININ	G INSTITUTIONS AS WELL	AS THE REFORM OF EXIST	ING ONES
	-Assistance to requests re- garding institutional and program development -Follow-up of regional meeting in 1976 (Caracas) and 1977 (Washington on same subject. -Follow-up of special meeting (1977) on interdisciplinarity education, research and ser- vices.	-Assistance continued. -Follow-up continues -Review of systems used in the creation of new institutions and programs.	-Review and/or establishment changes in existing institut -Discussion on patterns of ca -Analysis of experience with the teaching learning proces and community development.	reer and training through in-se interdisciplinary approach in s as related to health services	-Comparative review of inter- disciplinary models in training and education.	funds or funding agencis -Assistance continuedContinuing review of criteri -Review of in-service trainin experiences and results.
**************************************	medicine and for specific hea	with fields -maternal and child courses of nurses practitioner	health, pediatrics, public hea	other categories of health per lth- and in establishing educat needs and specific supporting l	ional programs.	ental health, veterinay
Output Indicators	-Report on interdisciplinarity applied to education, research and services.	-Report on criteria and sys- tems on creation of new institutions.	-Report on patterns of careerCase studies on experienced in-service training.	-Issue of guidelines for pre- paration of nurses practi - tioners.	-Report on main experiences in interdisciplinarity.	-Publication on in-service training experience and results.
ACTIVITY: 2.1.3	STRENGTHE	NING OF TRAINING INSTITUTION	S ORIENTED TO FILL SPECIFIC	IDENTIFIED GAPS IN THE CO	PPOSITION OF THE HEALTH TE	AM
	-Follow-up the elaboration of a guide for training of rural health auxiliary nursing personnel and a regional course for instructors of auxiliary programs. (1977). -Selection of centers and trial of new models and techniques for the preparation of rural health auxiliaries and nursing personnel on programs based on problem-solving and interaction auxiliary-community. -Development of short courses for training the teachers of selected centers in the new approach to auxiliary training. -Follow-up of workshop on Training and Education of Technical and Auxiliary Personnel, and related activities in 1977. -Revision of experiences and achievements on training and utilization of auxiliary personnel in selected countries or areas (e.g. Central Americal Andean Countries, Brasil, Cuba, Mexico).					evelopment of guidelines
Output Indiéators	-Listing of centers for preparation of rural health auxiliries.	-Report of case studies on auxiliary and technical personnel.	-Report on strategy for health team development.	-Guidelines on the prep- aration of technical and auxiliary personnel.	-Issue of guidelines on training of rural health auxiliaries,	-Description of caracteris- tics of team work in different settings.
ACTIVITY: 2.1.4	COMPARATIVE ANALYSIS OF,	AND SUPPORT THROUGH N	ETWORKS OF NATIONAL GROUP		CHEMES OF INSTITUTIONAL AN	
	activities in 1976-77 with the L	Lonal groups on inter-institution atin American Program of Educatio chnical cooperationidentifical sluation. -Continuation of activities in PLADES with the Núcleos de Investigación y Desarrollo Educacional en Salud (NIDES). -Description of national experiences.	nal Developmentin Health(PLADES) tion of new national groups, ex-	-Implementation of mechanisms tablish national networks of -Development of strategy to im national resources on health repeated of strategy for expansion of national experience in selected countries.	manpower development.	on the utilization of internot not new mechanisms of coortion to be applied to all capecial meetings with represent on groups and development of

TARGET 2.2: BY 1983, AT LEAST 60% OF THE COUNTRIES IN THE REGION WILL HAVE DEVELOPED AND/OR ADJUSTED THEIR TRAINING PROGRAMMES ON A TASK- AND COMMUNITY-ORIENTED BASIS, AS REFLECTED BY THE NUMBER OF PROGRAMMES WHICH HAVE BEEN DEVELOPED AND/OR CHANGED ACCORDINGLY.

	1978	1979	1980	1981	1982	1983
ACTIVITY: 2.2.1	DESIGN OF TASK-ORIENTED TRAIN	NING PROGRAMMES, BASED ON THE ANA	LYSIS OF TASKS TO BE PERFORMED B	MY DEFINED CATEGORIES OF HEALTH	WORKERS AND DESCRIPTION OF THE	UTILIZATION OF SUCH WORKERS.
	priorities (e.g. surveilland reference laboratories, nutr mother and child health). -Improvement of methodology fo craining programs based on m -Analysis of potential traini vices and related resources for improvement of in-servic -Improvement of the teaching-	at educational institutions	-Comparison of main programs in the Region with task-oriented training programsDevelopment of mechanisms for improvement of relevant areas of in-service training sciplines for different health etc.), based on task-oriented and the service training areas.	-Analysis of activities in pro coverage and recommended line programsRevision of mechanisms to improve health actions at different levels and of the influence on the dynamic of services exerted by training based onprocess-objectives. professions (e.g. Epidemiology, alysis and other pertinent stra	s for improvement of training -Strengthening training programs in selected institutions in view of innovative methodology developed in alnative health care delivery programs. Maternal and Child Care, Heal	-Development of strategies for continuing revision of teaching learning material using national and regional experiences.
Output Indicators	-Report on minimum activities -Issuing of guideline for the objectives in the developmen	utilization of process-	-Report on relationship of health and educational activities in selected case studies.		-Guideline for improvement of task-oriented training programs.	-Report on national and re- gional experiences and Report on strategies.
ACTIVITY: 2.2.2	ESTABLISHMENT OF CRITERIA AND	GUIDELINES FOR PROGRAMME DEVEL	OPMENT ON A TASK -AND COMMUNITY	- ORIENTED BASIS FOR ALL LEVELS	OF HEALTH PERSONNEL AND SUPPO	RT FOR THEIR APPLICATION
Output Indicators	-Development of guidelines for countries where the expansion accepted (e.g.: Central Amer -Cooperation with the schot- -Assistance to improve new tr based on task-oriented train	ools of nursing in the dev	elopment of the basic curr	riculum which includes the pre	paration of nurses for new	extended functions. rent levels of personnel, aluation and issue of recom-
ACTIVITY: 2.2.3	DEVELOPMENT OF TRAINING I	PROGRAMMES WHICH ARE SPECIA	LLY RELEVANT TO NEEDS OF	UNDERSERVED POPULATIONS AND	HAVE POTENTIAL FOR REP	LICATION
	Health oriented curricula in -II Regional course for Instructors of Nursing Pro- grams in Community Health	-Follow-up of experiences. Ind guidelines for the design and in the schools of nursing and den -III Regional Course for Instructors of Nursing Programs in Community Health. Sory rural service ("social serventes of Compulsory Rural Services of Com	tistry. -Institutionalization at count	-Promotion of new task oriented training programs for technical and auxiliary personnel with emphasis on primary health care. Try level of the post-basic training and Nursing and development of health services in the super-		ctiveness of such services. neral guidelines for a better
Output Indicators		-Preliminary report on Community Health training for Nurses.	-Issuing guidelines for training of technical and auxiliary personnel.	-Reports on follow-up studies about compulsory rural services.	-lasue revised guidelines for the preparation of Nur- ses in Primary Health Care.	-Guidelines on new strate- gies and models for com- pulsory rural services.

MARGET 2.3: BY 1983, AT LEAST 50% OF THE COUNTRIES THE REGION WILL HAVE ESTABLISHED ADVANCED EDUCAT: FOR HEALTH PERSONNEL INCLUDING THE SUBJECT MATTER COMPONENT OF TEACHER TRAINING, AS REFLECTED BY THE INCREASE IN THE NUMBER OF SUPERVISORS AND EDUCATORS IN THE VARIOUS AREAS OF HEALTH WORK EFFECTIVELY TRAINED FOR THEIR SPECIFIC TASKS.

•	1978	1979	1980	1981	.1982	1983
ACTIVITY: 2.3.1	IDENTIFICATION OF REPERRAL AS	NO SUPERVISORY SYSTEMS, AND OF T	TRAINING NEEDS FOR INSTRUCTION A	AND SUPERVISION OF DIFFERENT LE	VELS OF HEALTH WORKERS, AND PRO	MOTION OF APPROPRIATE SYSTEMS
	-Comparison of referral and s -Impro -Review of specific needs for teachers' and tutors' training in specific pro- grams.	ovement of teachers' and tut -Development of studies or	cation of training needs for incor's training programs in referral and supervision tent categories of person-ropriste systems.	nstruction and supervision at different health professions -Analysis of evaluation for supervision and re of utilization of serv munity and its partici	(medicine, nursing, dentis methods applied -Review of ferral in terms methods f ices by the comEvaluatio pation. tionship	ups and countries each year. try). needs and new training or supervision. n of the degree of rela- of activities, training e and priorities of the
Output Indicators			mation related t	-Report of evalua on referral and system regarding programs, bliography infor- to developed erial in training	supervisory recommends	strategies and tions for training s.
ACTIVITY: 2.3.2	EVALUATION,	FOLLOW-UP AND IMPROVEMENT O	OF POSTGRADUATE, POSTBASIC TRA	AINING, PARTICULARLY IN PUBLI	C HEALTH AND COMMUNITY HEA	LTH
	-Continue collaboration with de Facultades y Escuelas de X Conference	Pública (ALAESP), Federación Pa r Medical Education, etc.). XII Conference	mammericana de Asociaciones			
	of ALARSP		XI Conference of ALAESP		of ALAESP	
	in regionalized health servi -Conti -Establishment of prelimi- nary approach for better utilization of different institutions regarding	ce areas for all professions (enue cooperation with Scho -Interchange of material, and	olic Health, Preventive and Sociage, medicine, nursing, vetering ols of Public Health and teaching-personnel, experiences among courses in Social -Expansion of the coordination with institutions in the Region in advanced international public health,	-Evaluation of coordinated advanced training in international public health. Study and development of	ealch, etc.). n Preventive and Social -Implementation of coordinated training in advanced international public health with institutions in	-Evaluation and recom- mendations for improvement of training programs coordinated with PAHO/WHO
	training programs through PAHO/WHO Fellowships program.			strategies for expansion to include other regions.	other regions.	Fellowships
Output Indicators		-Report on more advanced experiences in Social and Preventive MedicineReport on acceptance of coordinated schemes of training.	-Report on Workshop on post- graduation experience in Social and Preventive Medicine.	-Report on effe efficiency of courses in Soc Medicine.		-Report on the utilization of different patterns of training in Fellowships.
ACTIVITY: 2.3.3	CONTINUOUS	REVIEW AND IMPROVEMENT OF	THE ADMINISTRATION OF THE P	ELLOWSHIP PROGRAMME AND NAT	IONAL POSGRADUATE/POSTBASIC P	ROGRAMIES
	Programs in the Health Fields in Latin America and the Caribbean, -Decentralization training seminars and visits as required*,	-Review directory of training programs and redesign for special information based on countries needs and continued updating.	-Improve informat resources and co	ion on training	lowships progra -Refinement of information systems on training resources in countries of the Region.	n .
	Details to be determined de	pending upon results of current	study.			
Output Indicators	-R e g		F e 1 1 c	wships	activ -Redistribution of Directory.	ities

TARGET 3.1: BY 1983, AT LEAST 50% OF THE COUNTRIES IN THE REGION WILL HAVE DEVELOPED A SYSTEMATIC APPROACH TO EDUCATIONAL PLANNING AND TECHNOLOGY, INCLUDING TEACHER-TRAINING, AS MEASURED BY IMPROVED PERFORMANCE AND APPROPRIATENESS OF TRAINING PROGRAMMES.

	13/8	73/3	1980	1981	1982	1983		
ACTIVITY: 3 1.1	IDENTIFICATION AND ASSESMENT	OF, AND SUPPORT TO, APPROPRIATE	FDUCATIONAL SYSTEMS, METHODOLO OF TRAINING OF HEALT	GICAL APPROACHES, EVALUATION SO TH PERSONNEL	CHEMES AND RELATED TECHNOLOGIES			
	Central Coordinat	tion - Technical Adviser Service	s, Supervision and Evaluation t	o Appropriate Educational Syste	ems, Methodological Approaches,	Evaluation and		
	-Diagnosis of requirement of new educational methodologies in schools and training programs, basically on the mid and auxiliary levels. -Development of an evaluation plan for institutions (tech and aux. personnel). -Coordination meeting NIDES/CIATES.	criterias and alternate plans for incorporating this edu- cational methodology. -Meeting of latinamerican specialists concerning these	-Promotion of these alternate	plans in five countries of the pregion for local adaptation of arough NIDES and CLATES. Lutions and programs. pregion (2 each year).		-Directed advisory services through NIDES and CLATESFvaluation of training inactivations and programs. Meeting of specialists -Coordination meeting NIDES/CIATES.		
Output Indicators	-Diagnosis of Situation -Outline of evaluation -Coordination meeting number	-Meeting of specialists in standards -Meeting of specialists in evaluation -Coordination meeting	-Promotion and adaptation meetings -Advisory services -Evaluation of institutions and programs	-Continue -Continue -Continue -Continue	-Continue -Continue -Continue	-Evaluation Report.		
ACTIVITY: 3.1.2	IMPROVEMENT OF REGIONAL AND N	-Development of standards WATIONAL CAPABILITIES FOR RESEAR	-Coordination Meeting		-concrine			
	Operation of the Latinamerican Centers of Educational Technology for Health in Rio (CLATES-Rio) and Mexico (CLATES-México)							
	local national group -10 NIDES -Development of Nursing Educa -15 subcenters in the countriesDevelopment of educational in process, production material	tries. Innovations in dentistry program Land use appropriate technology	15 NIDES -Implementation of new subcenter (network) subcenters in the core for training mid and auxiliary	personnel.	continued the program. hnology in the countries -Promotion in the countries in innovation program.	-Evaluation of the network in Medicine, Nursing. Den- tistry and Sanitary Engi- neering		
	-Development of network in er	rvironmental health (education,	information and technological	rograms) selection each year 2	countries in the Region.			
Output Indicators	-Activities and subcenters numbers.	-Implementation new NIDES, Nursing, Dentistry and En- vironmental Health subcenters	-Continue	-Promotion of the network in the countries	-Continue	-Evaluation of the Network in Medicine, Nursing. Dentistry and Environmental Health.		
ACTIVITY: 3.1.3	DEVELOPMENT OF TEACHER-TRAIN	ING PROGRAMMES AT REGIONAL AND/O	DR NATIONAL LEVEL					
	Development of	the Latin American Centers of Ed		in Rio (CLATES-Rio) and Mexic	o (CLATES-México) for Priority	Areas and Mostly		
Output Indicators	-20 courses each CLATESDevelopment of local courses advisory services by CLATESTraining teachers in Environ mental engineeringDevelopment of large scale training system (L.S.T.S.) in CLATES.	-Training teachers in Environ-	sors and instructors in educat -20 courses each CIATES. -Development of local courses.	ional technology basically for -20 courses each CLATES -Continued local courses. -Continued training environ- mental health.	-20 courses each CLATESContinued local courses -Continued training Environ- mental healthLocal operation in the countries of L.S.T.S.	-20 courses each CLATES -Evaluation of CLATES and local coursesLocal operation in the countries of L.S.T S -Evaluation L.S.T S		
	m + //c · * · · · · · · · · · · · · · · · · ·	I GIVERACIO MULTA G. ISS.	-ni 1779/Country -es and	-Continue	-Continue	-Evalution of the CLATES		

HEALTH INSTRUCTIONAL MATERIAL, INCLUDING TEXTBOOKS, REFLECTED BY THE INCREASE IN STUDENT UTILIZATION OF THE SAME AND A CLEAR FEEDBACK ON EFFECTIVENESS.

	19/8	1979	1980	1981	1982	1983			
ACTIVITY: 3.2.1	SURVEY AND ASSESSMENT OF EXISTING LEARNING MATERIALS, IDENTIFICATION OF PRIORITY REQUIREMENTS FOR NEW LEARNING MATERIALS FOR ALL CATEGORIES OF PERSONNEL. AND INVESTIGATION OF DESIGN AND REPRODUCTION FACILITIES								
	Central Coordination - Technical Adviser Services, Supervision and Evaluation for new Learning Materials for all Categories of Personnel								
	personnel and instructional	ding coverage and personnel and materials needs for their for- ocal groups, analysis of funcMeeting with specialists from Andean Pact and Central America on local applica- tion of materialsDevelopment of a method for evaluating this program.	-Meeting with specialists on local application of Brasil Mexico, Cuba and Dominican RepublicBeginning of continuing evaluation programInterdivisional working group.	-Meeting with specialists from Argentina. Chile. Uruguay and Paraguay on local application of materialsImplementation of the evaluationInterdivisional working group.	-Continued -Interdivisional working group	-Final evaluation of the periodMeeting for Final evaluationInterdivisional working group			
Output Indicators	_		-Meeting of specialists for	-Holding of regional evalua-	-Carrying-out permanent	-Evaluation at the end of			
	-Survey report -Standards and criterias productionMeering of specialistsInterdivisional Meeting.	-Survey Report -Meeting of specialists for local adaptationOutline evaluation programInterdivisional meeting.	local adaptation, -Application outline evalua-	tion meetingsHolding of interdivisional meetings.	evaluation. -Holding of interdivisional meetings.	period and regional eva- luation meeting.			
ACTIVITY: 3.2.2	DEVELOPMENT OR ADAPTATION OF	MULTI-MEDIA INSTRUCTIONAL PACK	AGES WITH EMPHASIS ON PRIORITY	AREAS AND ON SELF-INSTRUCTIONAL	APPROACHES				
	adaptation. -Development of national group for local adaptation of instructional material and new contents. -CIATES advisory services for national groups. -Preparation of modules and	ctional materials as a matrix f -Continue development local group. -Continued advisory services -Meeting national group/ CLATES. instructional materials in diff lth Nursing (Chile), Adult Nurs	-Continue local adaptation for national groups. -Continue advisory services of CLATES. -Meeting national group/ CLATES. erent areas: Maternal child	(L.S.T.S.) and their local -Continue local adaptation for national groups. -Continue advisory services of CIATES. -Coordination meeting na national groups/CIATES. -Test of Nursing materials.	-Local production of instruc- tional materialsContinue advisory by CIATESCoordination MeetingEstablishment of a bank of instructional materials in Nursing and adaptation local of the modules.	-local production -Evaluation, coordination meeting national group/ CLATESEvaluation specific Nursing program.			
Output Indicators	-National groups numbersAdvisory services for CLATES -Coordination meeting -Modules and Matrix number.	-Modules and Matrix numbersLocal adaptation of instruc- tional material and new content by national groupsAdvisory services to national groupsCoordination meetings.	 Local adaptation of instructional material and new content by mational groups. Advisory services to national groups. Coordination meetings. 	-Local adaptation of instruc- tional material and new content by national groups. -Advisory services to national groups. -Coordination meetings.	-Local adaptation of instruc- tional material and new content by national groups. -Advisory services to national groups. -Coordination meetings.	-local adaptation of instructional material and new content by national groups -Advisory services to national groupsCoordination meetings.			
ACTIVITY: 3.2.3	SELECTION, PRODUCTION, PROMO	TION AND PROVISION OF LEARNING	MATERIALS GROUPS WITH EMPHASIS	S ON PRIORITY AREAS					
-	-5 Selection committees for textbooks and/or manualsProduction and sale of 7 books and/or manuals in priority areasProduction and sale of 25 audiovisual aids and other instructional materialProviding instructional equipment for groups and individual use (40 schools)	-4 Selection committees for textbooks and/or manualsProduction and sale of 14 books and/or manuals in priority areasProduction and sale of 50 audiovisual aids and other instructional materialProviding instructional equipment for groups and individual use (40 schools).	-3 Selection committees for textbooks and/or manualsProduction and sale of 12 books and/or manuals in priority areasProduction and sale of 75 audiovisual aids and other instructional materialProviding instructional equipment for groups and individual use	-3 Selection committees for textbooks and/or manualsProduction and sale of 8 books and/or manuals in priority areasProduction and sale of 50 audiovisual aids and other instructional materialProviding equipment continued.	-3 Selection committees for textbooks and/or manualsProduction and sale of 8 books and/or manuals in priority areasProduction and sale of 50 audiovisual aids and other instructional materialProviding equipment continued.	-1 Selection committee for textbooks and/or manualsProduction and sale of 8 books and/or manuals in priority areasProduction and sale of 25 audiovisual aids and othe instructional materialProviding equipment concontinued.			
Output Indicators	-Reports of selection commit -Meetings of committees. -Production of books in pric	rity areas.	-Reports of selection committed the selection of selection committeesProduction of books in prior -Production of self-induction of self-induction of self-induction of self-induction in production of self-induction in the selection of self-induction in the selection of self-induction in the selection of self-induction of self-induction in the selection of selection committees in the selection committee i	rity areas.	-Reports of selection commit -Meetings of committees.	tees.			

-Production of andimediane

-Production of audiovisual and instructional material.

TARGET 3.3: BY 1983, AT LEAST 60% OF THE COUNTRIES IN THE REGION WILL HAVE DEVELOPED A SCIENTIFIC AND TECHNOLOGICAL DOCUMENTATION SYSTEM AND WILL BE DISTRIBUTING SELECTIVE INFORMATION AS EVIDENCED BY A BROADER AND INCREASED UTILIZATION OF BIBLIOGRAPHIC INFORMATION.

	1978	1979	1980	1981	1982	.1983				
ACTIVITY: 3.3.1	DEVELOPMENT OF CRITERIA AND SUBSEQUENT IMPLEMENTATION OF A REGIONAL NETWORK OF SCIENTIFIC AND TECHNOLOGICAL INFORMATION									
	Central Coordination - Technical Adviser Services, Supervision and Evaluation of Network of Scientific and Technological Information									
	-Development of plan for evaluating impact of networkEvaluation of CNID in operationDevelopment of standard and criterias for operation network and CNIDMeeting of specialists in standardsCoordination meeting CNID/BIREME.	-Meeting on evaluation out- line CNID/BIREMEOperation 10 CNID in countriesIntroduction of new 4 CNIDCoordination meeting CNID/ BIREME.	-Implementation continuing evaluation of network CNID/BIREMEOperation 14 CNID in countriesIntroduction of new 4 CNIDCoordination Meeting CNID/BIREME.	-Continue with continuing ev -Operation and support 10 co -Coordination meeting CNID/E		-Results of final evaluation of period. -Coordination meeting CNID/ BIREME. Evaluation. -Operation 18 CNID				
Output Indicators	-CNID evaluationStandard implementedEvaluation scheme -Coordination meeting.	-Evaluation meetingNumber of CNID in operationCoordination meeting	-First evaluation networkNumber of CNID in operationCoordination meeting.	-Number CNID in operationCoordination meeting.	-Number CNID in operation. -Coordination meeting.	-Final evaluationCoordination meetingCNID operation.				
ACTIVITY: 3.3.2	COLLECTION, ANALYSIS AND DISSEMINATION OF SELECTIVE INFORMATION IN PRIORITY AREAS RELATED TO HEALTH									
	Development	Development of BIREME Compilation, Analysis and Dissemination of Selective Information. Training Librarians, Medline, Support for CNID								
	-Study for introducing MED- LINE in Latin AmericaSelective dissemination of information in health ser- vices. (begin) -Selective dissemination of information regarding maternal and child aspect and nutritionMeeting BIREME/S.A.C.	-Meeting countries/financial backers for establishment of MEDLINE Latin AmericaSDI in health servicesSDI in maternal/child and nutritionSDI in communicable disease -SDI in environmental health -Meeting BIREME/S.A.C.	-Introduction of MEDLINE system in Latin AmericaContinued SDI in 4 priority areasMeeting BIREME/S.A.CInterdivisional working group	-Operation of MEDLINE in Lat tinuing evaluation. -Continue SDI in 4 priority -Meeting BIREME/S.A.C. up for selecting material to be	-Meeting BIREME/S.A.C.	-Evaluation of MEDLINE in Latin American countries -Continued SDI in 4 priority areas. Evaluation. -Meeting BIREME/S.A.C.				
Output Indicatora	-BIREME operation reports -Number of courses -Volume of dissemination -Report of Advisory Commit- tee.	-BIREME operation reports -Number of courses -Volume of dissemination -Report of Advisory Commit- teeStudy MEDLINE report.	-BIREME operation reports -Number of courses -Volume of dissemination -Report of Advisory Commit- teeMEDLINE feasibility study.	-BIREME operation reportsNumber of courses -Volume of dissemination -Report of Advisory CommitteeCountries linked to MEDLINE	-BIREME operation reports -Number of courses -Volume of dissemination -Report of Advisory Commit-	-BIREME operation reportsNumber of courses -Volume of disseminationReport of Advisory Commit- teeBIREME-evaluation report				
ACTIVITY: 3.3.3	ESTABLISHMENT OF HMD INFORMA	TION SERVICES ON HEALTH MANPOWE	R DEVELOPMENT PROGRAMMES AND PR	OCESSES						
	-Planning of a systematic mechanism for collection and dissemination of in-	-Development of a data bank in CLATES and BIREME.	-Dissemination	of relevant inf	l benefit educational training in ormation on HMD i	n the Region.				
Output Indicators	-Plan for information on HMD.	-Data bank in operation.	-Infor ucació	mation n Médi	diasem cay S	inate, aled"				

MANPOWER PLANNING AND ADMINISTRATION (HRP)

TARGET 1.1 EFFECTIVE COORDINATION BETWEEN EDUCATIONAL AND SERVICE INSTITUTIONS

This activity will encompass and regroup several conferences, studies, meetings, task forces, that may stimulate the establishment or strengthening of manpower development relations with other sectors - health services, labor, education, regional development, etc. Specific cooperation is sought with AAMC, OECD, FAO, UNESCO, ILO, and other United Nations specialized agencies.

Technical financial support will be provided to national groups undertaking studies on alternative schemes of coordination between health services and manpower development.

This activity will be developed in close coordination with activity 2.1.4 (Latin American Program for Educational Development and Health - PLADES) and will receive technical inputs from activities 1.2.3, 1.4.1, 1.4.3.

- a) at the institutional level the PLADES programs will support joint committees in the country, between health services institutions or teaching institutions. These committees will promote integrated teaching, integrated health care delivery, and integrated research. Committees established at the national level may decentralize in several state or provincial committees with multiplying effect.
- b) at the planning level teaching institutions will be prepared to participate in the health manpower planning national process. Conversely, the manpower units of the Ministries of Health will be prepared to fully utilize the participation of teaching institutions in the planning process.

	1978	1979	1980	1981	1982	1983
Short-term consultants	12,000	15,000	16,750	18,000	18,250	10,500
Participants	-	9,000	30,000	-	-	_
Seminar costs	-	3,000	1,500	4,000	4,000	_
Grants	3,000	12,000	12,000	12,000	12,000	12,000
Editing/Printing	-	1,500	-	1,500	1,500	-
Total	20,000	40,500	60,250	35,500	35,750	22,500

TARGET 1.2 DEVELOPMENT OF HEALTH MANPOWER PLANNING PROCESSES

The required manpower planning methodology will be developed by a series of annual workshops on technical issues. Each workshop will be followed by the preparation and distribution of technical guidelines.

Similarly, methods will be developed for the analysis and estimation of requirements of personnel for the priority areas - maternal and child health and nutrition, family health, control of communicable diseases, laboratory, water supply and sewage, basic sanitation, occupational health and other activities. Staffing guidelines will be prepared in 1979, and field applications will take place in 1980, 1981, and 1982.

Technical cooperation with the manpower departments or divisions of the Ministries of Health, will be continued. The technical cooperation will be centered on a sequence of technical aspects to meet the needs of the countries in manpower information to reach a manpower planning stage - strengthening of the national units; constitution of a manpower information system and information collection, retrieval and processing; determination of manpower requirements, manpower policy analysis, setting of manpower standards and finally health manpower planning. This activity will be implemented through mutual advisory services and a series of subregional seminars on theoretical aspects of health manpower planning leading to a Regional Conference in 1983,

Activities 1,2.2 and 1.2.3 will require the preparation of specialized staff in several areas of manpower planning -information systems, computation, health manpower economics, manpower legislation, labor organization, policy analysis and formulation, and educational planning. This activity will be implemented through a training program of short basic courses, complemented by specialized training sessions and occasional academic training.

	1978	1979	1980	1981	1982	1983
Short-term consultants	43,250	63,500	56,000	65,950	57,750	54,0 00
Participants	5,000	7,000	10,000	10,000	10,000	-
Seminar Costs	9,500	10,000	8,000	8,000	-	70,000
Grants	5,000	6,000	10,000	10,000	10,000	4,000
Fellowships	18,000	25,000	19,000	20,000	15,000	7,000
Editing/Printing	-	3,000	5,000	1,000	1,000	10,000
Computation	6,000	8,000	•	500	1,000	1,000
Local Costs	7,000	9,500	-	1,000	1,500	22,000
Total	88,750	132,000	108,000	116,450	96,250	168,000

TARGET 1.3 DEVELOPMENT OF MANAGEMENT TRAINING CAPABILITY

The evaluation, coordination and support of the whole network of the 47 existing training centers and academic courses, to ensure a holistic regional approach to policy decisions, planning and implementation of the education and training of the administrative manpower required at the different levels of care for the extension of coverage, will be implemented through intercountry workshops, task forces, fellowships for exchange, specialization and development of faculty staff.

Supportive mechanisms such as periodic directory of training programs, faculty teaching material, and research will be developed. In cooperation with HRT, a clearinghouse of instructional material will be established, educational technology and materials will be developed through the textbook program and strengthening of libraries, through a Research Reference Catalogue and the periodical publication of "Program Notes on Health Care

Guidance and support will be provided for the establishment and operation of Advanced Training Centers in Health Care Administration for advanced studies and preparation of professors, and as advanced research centers(*). This will be implemented through a survey of training institutions in health sciences, management sciences, and of health services, to identify the lost institutions for the Centers. Proposals for the creation of 5 centers will be made in 1978 and 1979. Detailed plans of operation will be prepared and technical support will be given for the operation of the centers in subsequent years.

Strengthening of the inter-relations between training of manpower in health care administration, and the utilization of this manpower in the service institution at different levels of care for the extension of coverage. This will be implemented through: promotion, coordination and support of intensive training programs for the development of managerial skills, workshops of in-service training of teachers, continuing education for managers at the several levels of care, independent study programs, and the development of new models of health care delivery systems.

(*) The main financing of this activity is established by a Memorandum of Agreement between the PAHO and the W.K. Kellogg Foundation, which earmarks an average funding of \$500,000 for the direct support of each center.

	1978	1979	1980	1981	1982	1000
Short-term Consultants Participants Contractual Services Editing/Printing Educational Materials Secretarial Services	54,000 60,000 4,000 19,000 5,000	52,750 111,500 4,000 25,500 2,000 4,000	64,500 96,900 4,000 25,500 2,000 4,000	62,750 106,500 4,000 25,500 2,000	68,750 95,750 4,000 25,500 2,000	46,000 100,500 4,000 25,500 2,000
Tota 1	1/2 000		7,000	4,000	4,000	4,000
	142,000	142,000 199,750	196,900	204,750	200,000	182,000

TARGET 1.4 ESTABLISHMENT OF SCHEMES OF CAREER DEVELOPMENT AND CONTINUING EDUCATION

- A regional study of the existing patterns of career development in Latin America and the Caribbean will permit the preparation of alternative systems of continuing education (activity 1.4.2), scheme for monitoring the utilization of health personnel (activity 1.4.3), and the development of strategies to control internal or external migrations of health personnel (activity 1.5.2). Once the regional study is completed, guidelines will be prepared for the design of career ladders and lattices. Technical cooperation will be developed between the countries in 1982-1983.
- . The development of procedures to implement alternative systems of continuing education will be implemented through three lines of action:
- Technical cooperation between existing programs for their progressive interprofessional coordination, synchronization, extension, and integration in the overall manpower development for the extension of coverage,
- A Regional Program will establish a permanent system of continuing education for all
 categories of health personnel in direct coordination with programs of extension of coverage in 16 countries of Latin America and the Caribbean.
- 3. The development of programs of continuing education in priority areas maternal and child health and nutrition/family health, disease control, and environmental health.

Technical cooperation will be established and progressively expanded between the Ministry of Health in two related areas: manpower expenditures - manpower economics and manpower management, giving priority attention to the situation in rural areas and peripheral services.

The scientific and practical production of this activity will be utilized in activities 1.3.1, 1,3.2, 1,3.3, 1,3.4, and will lead to the development of schemes for the monitoring of the utilization of health personnel.

	1 9 78	1979	1980	1981	1982	1983
Short-term consultants	19,250	51,000	83,200	87,550	105,815	112,500
Participants	-		8,000	-	-	-
Grants	88,000	188,000	363,000	397,000	251,006	148,000
Seminar costs	8,000	18,000	22,000	15,000	16,000	12,000
Educational material and equipment	<u></u>	16,000	4,500	11,000	4,000	-
Contractual services	9,000	10,000	6,000	5,000	-	8,000
Editing, translation, and printing	-	2,000	3,200	3,500	-	-
Local costs	•	3,000	~	-	3,000	-
Total	124,250	288,000	467,900	519,050	379,815	280,500

TARGET 1.5 DISCOURAGEMENT OF UNDESTRABLE MIGRATION

A study on certification procedures and mutual recognition of qualifications and diplomas will be carried out under extrabudgetary resources during the period 1979-1982. Special attention will be given to recognition of diplomas within Latin America and within the Caribbean area.

Upon request of governments, the Organization will establish technical cooperation for the study of the migration phenomena, their interpretation and control strategies. Consideration will also be given to the consequences of abrupt discrimination of migration and the emergence of new poles of attraction.

	1978	1979	1980	1981	1982	1983
Short-term consultants	9,000	15,500	14,500	15,500	16,400	8,500
Contractual services	-	10,000	-	8,000	-	-
Editing, translation and printing	-	-	-	-	1,500	••
Total	9,000	25,500	14,500	23,500	17,900	8,500

TARGET 2.1 INSTITUTIONAL DEVELOPMENT

Updating information on educational institutions and programs for the production of respective Directories, several educational institutions in the Region have pursued important structural changes looking for innovative approaches in organization and programs. During 1978-1983 attention will be given to the follow-up of these experiences and the design of revision schemes in special settings where a better integration with health services could be envisaged. The follow-up referred above aims to a special publication of those experiences during 1979 and 1981. A meeting was held in Mexico during 1977 and will be followed by a detailed review in the creation or transformation of selected institutions. This will be analyzed during 1979 to 1981, in the following countries: Costa Rica, Cuba, Guatemala, Honduras, Mexico, and Dominican Republic.

During the period of 1975-1977, activities have been developed taking in consideration the special need for a better organization in the training programs of technical and auxiliary personnel. The main problems, as well as experiences throughout the Region were analyzed in a workshop held in 1976. The experience of the work in the Region, through selected countries, will be followed during 1978 and 1979 more directly with programs in Central America, Cuba, and Mexico; followed during the next two years by the Andean countries and Brazil. Later, a comparison of patterns used in these programs will take place, considering the strategies for multiprofessional team development.

The activities planned for the period 1978-1983 for the training of auxiliary nurses comprise: (a) development in each country of the Region of a plan and the necessary mechanisms for the training of auxiliary nursing personnel; (b) development and/or strengthening of mechanisms for the preparation of instructors; (c) preparation of guidelines, and educational meterial for the training of auxiliary nursing personnel. The activities are focused on the experimentation of new models and techniques for the training of rural health auxiliaries in nursing, based on problem solving and interaction auxiliary/community and include the preparation of teachers, the production of modules and autoinstructional material in eight selected countries of the Region.

The Latin American Program of Educational Development in Health (PLADES), has been implemented since 1976. It represents an interesting experiment of technical cooperation in health manpower development through national groups of coordination between health services and educational institutions. Funds have been provided through a grant from W.K. Kellogg Foundation to PAHEF, and this is complemented by PAHO regular funding and by national allocations to each specific country project in: Brazil, Bolivia, Costa Rica, Ecuador, Honduras, Mexico, Nicaragua, Peru, Dominican Republic, and Venezuela. During 1978, especial attention will be given to mechanisms of coordination developed in each country involved. Additional groups will be added to the initial ones during the coming years, as well as the expansion to subgroups at national level.

BUDGET	1978	1979	1980	1981	1982	1983
STC	115,000	133,000	151,000	136,000	184,000	161,000
Seminar Costs	54,000	45,000	50,000	75,000	55,000	70,000
Grants	228,000	180,000	90,000	60,000	60,000	30,000
Supp. and Equip.	50,000	92,000	60,000	75,000	75,000	105,000
Coordination	91,502	80,000	90,000	50,000	50,000	50,000
TOTAL	538,502	530,000	441,000	396,000	424,000	416,000

TARGET 2.2 TASK-ORIENTED TRAINING PROGRAMS

For the extension of health coverage it will be of importance to have a clear identification of essential activities related to health priorities in primary care, to be performed by technical and auxiliary personnel. Two consultants will collaborate in the visits to institutions and a small working group will prepare a preliminary report. To some extent the strategy of cooperation with national coordination groups mentioned in HRD 2.1.4 will be used for these activities related to training of health personnel at all levels.

For a better coordination and, in some cases, integration of services and training activities, in each country, there is a need for detailed study of existing training resources and the identification of potential and actual services, or actions in the services institutions, for the formulation of sequential training activities. Each year, and at selected countries, these aspects will be analyzed and written down as guidelines for the programs' development.

The major objective of the activities outlined in HRD 2.2.2 is to cooperate with countries that officially accept the expansion of the role of nurses (Central America, Caribbean Region, Colombia, and Panama) in the development of educational programs which enable nurses to function in an expanded role in primary health care and to measure the impact of these programs on the extension of health coverage. Plans to reach this objective include: revision of existing courses, establishment of new ones and reformulation of the basic curriculum so as to incorporate the knowledge and experience required for the enlargement of the nursing functions.

Guidelines, design of modular curriculum, instructional materials, and results of studies carried out by the abovementioned countries will be issued and made available to interested countries.

It is estimated that about 25,000 people work at all levels (including managerial, professional, clerical and laboral), in the field of water supply and sewerage in Latin America and in the Caribbean Area. National training programs for the sector, instituted within the responsible national water and sewerage agencies of the countries, are to be strongly encouraged and supported.

Assistance will also be provided to programs in veterinary medicine and dentistry.

The Expert Committee on Teaching of Community Health Nursing, held in Washington, D.C. in 1976, made several recommendations related to changes that must be introduced in the basic nursing curriculum if a community oriented nurse is to be prepared. The group of activities outlined has as its objectives to develop and make available to countries strategies, tools, and instruments which may facilitate the introduction of desired changes in the preparation of nurses.

	1978	1979	1980	1981	1982	1983
Short-term consultants	86,000	91,000	100,000	116,000	120,000	125,000
Seminar Costs	75,000	90,000	96,000	96,000	85,000	75,000
Grants	36,000	48,000	52,000	62,000	65,000	65,000
Supply and equipment	30,000	30,000	55,000	65,000	65,000	40,000
Total	227,000	259,000	303,000	339,000	335.000	305,000

TARGET 2.3 POSTGRADUATE TRAINING

After 20 years of the introduction of Preventive Medicine, aspects in the teaching of medicine (Viña del Mar Seminar en Chile, 1955, and Tehuacán Seminar in Mexico, 1956), and also, analysis of the results in 1968 and in 1974, a wide range of experiments have been developed throughout Latin America (e.g., community medicine, family interview and follow-up, school health centers, etc.). Also, new approaches of in-service training in regionalized health services areas have developed. During recent years, few programs started with greater emphasis in Social Services and postgraduate courses, but there is a need of interchange of these experiences. The follow-up of these experiences will continue through the period 1978 to 1983.

The spread of useful knowledge by faster and efficient schemes includes the necessary improvement on supervision and referral systems.

In the field of Education in Public Health, the schools of public health and other postgraduate programs in Preventive Medicine are providing important training in the Region. Through the Latin American Association of Schools of Public Health and other associations for different professions, the Organization will keep support to discussion and recommendations on the main innovative aspects of training and education.

In cooperation with Fellowships (HRF), a new scheme for coordinating the programs of two or more institutions to accomplish specific training objectives will be developed, to deal with different public health fields. According with availability of funds, special fellowships could be awarded for international public health training. Past experiences derived from "Institutional Fellowships" program will be used for this purpose.

Expertise and information on training resources gained through the fellowship program will be increasingly placed at the disposal of governments for support of health-related training activities financed from other sources as well as from the Organization's funds. Assistance will be provided in development of new approaches to training (see HRD Target 2.3.2). Decentralization will be implemented in accordance with instructions of the Division of Administration.

	1978	1979	1980	1981	1982	1983
STC	91,400	119,600	110,500	110,500	127,250	109,000
Seminar Costs	166,200	97,550	114,050	149,050	125,500	117,500
Grants	40,000	40,000	48,000	62,000	55,000	66,000
Supply and Equipment	45,000	45,000	45,000	54,000	55,000	60,000
* Fellowships	(118) 412,500	(123) 451,650	(130) 499,330	(136) 547,264	(143) 603,170	(150) 661,950
Total	755,100	753,800	816,880	922,814	965,920	1,014,450

^{*} Fellowships in the Field of Human Resources and Research

TARGET 3.1 DEVELOPMENT OF EDUCATIONAL TECHNOLOGY

A central coordinating body will be in charge of technical assistance, supervision, and evaluation of the sub-program. A regional survey will be made, to explore new educational needs and training demands in general, particularly, at the technical and auxiliary level. Basic and background information should be collected by an STC, and a technical meeting will set up strategies and alternative models to be adopted by countries. Local seminars and meetings are to be carried out for programming and promotion (5 local meetings per year). Adaptation and provisions for implementation and follow-up are to be made on a subregional basis. An evaluation scheme is to be prepared and applied on a permanent basis. A final evaluation will take place in 1983.

In this component activities will aim toward: a) development of educational technology at the Education and Health Research and Development Centers (NIDES) as part of the overall Latin American Programs of Health Educational Development (PLADES). It is estimated that by 1980, twelve NIDES in 10 different countries of the Region will be in full operations (1st phase). Other centers will be promoted in other countries (2nd phase); b) development of a nursing educational technology program through the establishment of subsidiary centers at the schools of nursing, devoted to methodological improvement and production of instructional materials and modules; c) development of innovative teaching techniques in dentistry, production of instructional materials and use of appropriate technology in oral health.

There are two Latin American Centers for Educational Technology on Health: CLATES-Rio de Janeiro and CLATES-Mexico. During the period, main activities will focus on staff development, implementation of large-scale training programs, and preparation of instructional materials. Priority areas will be maternal and child health, nutrition, communicable diseases and environmental health. Periodic courses at both CLATES, and country fellowships are required to train 20 professors and/or instructors in each country until 1983 (5 or 6 countries per year). The large-scale training system will require the development of a matrix of strategies and materials at both CLATES and a subsequent local adjustment made jointly with the countries of the Andean Pact and Mexico by 1980, and in the Dominican Republic, Haiti, the Caribbean community and southern countries of Latin America by 1981.

	1978	1979	1980	1981	1982	1983
Personnel Costs	145,770	157,188	168,166	177,747	188,699	200,499
STC	94,000	104,000	99,000	125,000	88,000	126,000
Seminar Costs*	68,600	73,800	88,600	91,600	57,000	59,000
Grants (Kellogg)	140,000	150,000	150,000	-	-	-
Grants (IDB)	50,000	50,000	70,000	70,000	-	•
Grants (AMR)	-	50,000	55,000	58,000	50,000	50,000
Production Costs	19,400	21,400	34,400	37,400	-	•
Supply and equipment	36,200	33,700	21,000	23,000	19,500	22,500
Fellowships	21,500	23,600	8,900	9,000	10,300	11,000
Total	575,470	663,688	695,066	591,747	413,499	468,999

^{*}Including extrabudgetary funds

TARGET 3.2 PRODUCTION AND DISTRIBUTION OF INSTRUCTIONAL MATERIALS

Central Coordination will entail technical assistance, supervision and evaluation of the subprogramme, including: a) a regional survey of the programme status in extension of service coverage with particular reference to human resources needs and instructional materials for training national groups, etc.; b) development of norms and criteria for production and utilization of instructional materials for training of technical and auxiliary personnel, in priority programme areas. A regional experts' meeting will be called upon by 1979. Subregional meetings will be held afterwards in different countries; c) development of evaluation instruments to measure impact of activities in personnel education and training on a continuing basis.

With a loan from the Interamerican Development Bank (IDB) the Textbook Program will become an extended Instructional Material Program for all categories of health personnel, especially at the technical and auxiliary level involved in the extension of service coverage. The main activities to be carried on during 1978-1983 are as follows: a) creation of Textbook Selection Committees for pre-graduate and intermediate technical levels. During 1978 and 1979 13 Committees will start operations, and thereafter will be three new Committees per year up to 1983 when only one Committee will be established. The initial effort is to keep pace with the industrial production program; b) production and selling of textbooks and manuals in priority program areas; c) production and selling of audiovisual aids and other instructional materials to support large-scale training programs.

The successful development of educational programs based on large-scale training systems and production of instructional materials demands some local country adjustments. National groups need to be involved in order to participate actively in this process. Annual meetings will facilitate regional and country programming and coordination. Financial assistance will be provided to national groups for local production of instructional materials.

	1978	1979	1980	1981	1982	1983
Personnel costs	23,365	27,688	29,666	31,214	32,999	34,999
STC	150,500	124,000	81,000	90,000	99,000	78,000
Seminar Costs	42,000	45,200	33,800	32,000	21,000	43,000
Supply and Equipment	48,500	42,000	42,500	43,000	43,500	44,000
Printing Books*	350,000	700,000	600,000	500,000	400,000	400,000
Production of AV*	112,500	225,000	337,500	225,000	225,000	125,000
Publications	5,500	2,000	2,500	3,000	3,500	4,00
Total	732,365	1,165,888	1,126,966	924,214	824,999	728,999

^{*}Revolving fund based on the loan from the IDB

TECHNOLOGICAL RESOURCES (HRT)

TARGET 3.3 DOCUMENTATION AND INFORMATION SYSTEM

The main objectives of BIREME are the collection, analysis and dissemination of scientific and technological information related to health priority areas. BIREME is also involved in the training of personnel in library and information sciences and acts as a regional reference center for Latin America. Through the Medline system, BIREME maintains a network of information's unit in several Brazilian's universities and in the new stage of development presented in this medium term program it is being proposed to extend such network to cover all Latin American countries. A major activity in this program is the Selective Dissemination of Information in priority areas such as MCH, Health Services, Nutrition, Communicable Diseases and Environmental Health.

A new important trend in this field is to direct selective dissemination of information toward the health services system, including both administrative offices at the Ministries of Health and professional personnel at the service level.

	1978	1979	1980	1981	1982	1983
Personnel Costs	437,360	463,038	480,266	489,364	510,399	541,449
STC	46,500	60,000	40,500	20,000	22,000	48,000
Seminar Costs	66,903	68,333	75,200	62,800	56,800	61,000
Grants	56,000	48,000	26,000	30,000	40,000	40,000
Supplies and Equipment	19,680	11,566	11,566	11,500	2,500	2,500
Publications	4,000	1,866	2,566	2,200	2,800	4,500
Library Acquisitions	20,000	25,000	25,000	30,000	30,000	40,000
Common Services	20,000	18,000	13,000	13,000	· -	-
Contractual Services	10,250	11,000	12,000	15,000	15,000	18,000
Fellowships	42,000	48,500	51,000	55,500	60,000	65,000
Total	722,693	755,303	737,098	729,364	739,499	820,449

ACRONYMS

PLADES: Programa Latinoamericano de Desarrollo Educacional para

la Salud

Latin American Program on Educational Development in Health

PACHMP: Pan American Conference on Health Manpower Planning

NIDES: Núcleo de Investigación y Desarrollo para la Salud

Nucleus of Educational Research and Development

CLATES: Centro Latinoamericano de Tecnología Educacional para

la Salud

Latin American Center for Educational Technology in Health

CLATES-Río: Centro Latinoamericano de Tecnología Educacional para la

Salud, localizado en Río de Janeiro, Brasil

Latin American Center for Educational Technology in Health,

located in Rio de Janeiro, Brazil

CLATES-México: Centro Latinoamericano de Tecnología Educacional para la

Salud, localizado en Ciudad de México, México

Latin American Center for Educational Technology in Health,

located in México City, Mexico

LSTS: Large Scale Training System

CNID: Centro Nacional de Información y Documentación

BIREME: Biblioteca Regional de Medicina y Ciencias de la Salud

RLM: Regional Library of Medicine and the Health Sciences

SAC: Comité Asesor Científico de BIREME

Scientific Advisory Committee of RLM

MEDLINE: Medical Data on-line

ALAESP: Asociación Latinoamericana de Escuelas de Salud Pública

FEPAFEM: Federación Panamericana de Facultades (Escuelas)

de Medicina

UDUAL: Unión de Universidades de América Latina

NGO: Organismos no gubernamentales

Nongovernmental Organizations