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JHPIEGO

The Johns Hopkins Program for International
Education in Gynecology and Obstetrics

Annual Report
Fiscal Year 1987



The Johns Hopkins Program for International Education in Gynecology and Obstetrics (JHPIEGO) is a private, nonprofit corporation affiliated with The Johns Hopkins University and funded primarily by the Agency for International Development. JHPIEGO's mandate is to increase the availability of improved reproductive health services in developing countries and to increase the number of health professionals in developing countries with knowledge and skills in modern reproductive health care, especially family planning services.

In its approach, JHPIEGO:

- Supports short-term educational programs for medical and nursing/midwifery school faculty, trainers, key service providers, and administrators.
- Facilitates the strengthening of reproductive health education in medical and nursing/midwifery schools and other teaching institutions.
- Maintains a network of reproductive health care professionals in developing countries who act as project directors and consultants for JHPIEGO-supported educational programs.
- Advocates the incorporation of reproductive health services into primary health care.
- Develops innovative educational programs for medical professionals.

- Provides trainees and their institutions with up-to-date educational materials and supports the development of local educational materials.
- Provides medical equipment for reproductive health services to the institutions of program participants.

JHPIEGO is essentially a catalyst for the improvement of reproductive health. Leading health care professionals in developing countries propose and manage the programs; JHPIEGO provides technical guidance and funding.

Since 1974, JHPIEGO has supported educational programs for more than 55,500 health care professionals and medical and nursing/midwifery students from 6,700 institutions in 122 countries. A total of 12,100 doctors, 7,800 nurses, midwives, or paramedical workers, 1,500 administrators, and 34,100 undergraduates have participated in these programs. For the majority of health professionals, clinical training has been in voluntary surgical contraception, anesthesia for outpatient gynecological procedures, IUD insertion, or treatment of sexually transmitted disease. The vast majority of program participants were trained at in-country and regional centers, with just over 2,600 attending courses in the United States.

JHPIEGO 

Annual Report

Fiscal Year 1987

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OVERVIEW

Fiscal 1987 was JHPIEGO's first under its new cooperative agreement with the Agency for International Development. During the year, JHPIEGO supported 46 programs for 12,981 participants in 26 countries (Figure 1). A total of 12,821 were trained in in-country programs, and 160 attended regional programs, which are open to professionals seeking training that is not offered in their countries. An additional 122 professionals attended courses at the JHPIEGO Educational Center in Baltimore, which brings the total number trained during the year to 13,103. The regional distribution of program participants is shown in the following table:

The disproportionate number of participants from Latin America and the Caribbean resulted from undergraduate training programs at 33 Mexican nursing schools and 17 Colombian nursing schools for 8,174 students. The courses in these programs give students an overview of issues in reproductive health. They are shorter than programs for in-service personnel and do not include clinical training.

Training objectives and activities during the fiscal year for the four regions and the Educational Center are described below.

Africa	1,719
Asia	541
Latin America/ Caribbean	10,426
Near East	417

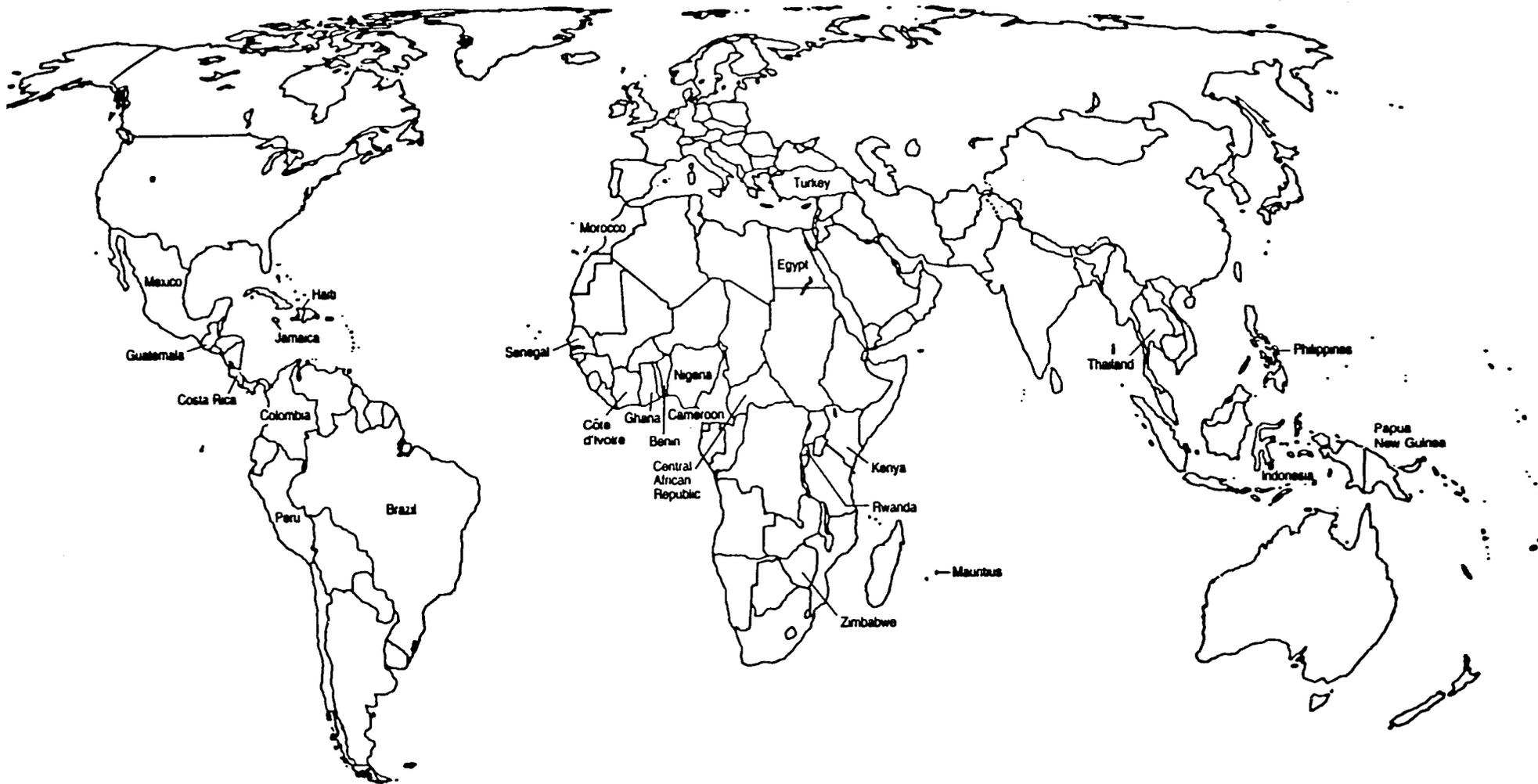


Figure 1 Countries in which JHPIEGO supported in-country or regional training in fiscal 1987

AFRICA

In Africa, training programs are designed mainly for service providers and focus on the skills needed to decrease high rates of maternal and infant mortality: family planning, oral rehydration therapy, promotion of breast-feeding, immunization, and treatment of sexually transmitted diseases, including the acquired immune deficiency syndrome (AIDS). JHPIEGO supported in-country training in 11 sub-Saharan African countries during FY 1987: Benin, Cameroon, the Central African Republic, Cote D'Ivoire, Ghana, Kenya, Mauritius, Nigeria, Rwanda, Senegal, and Zimbabwe (Table 1). In Nigeria, JHPIEGO has

been participating in a massive AID-sponsored program to improve family health. This year JHPIEGO began to decrease training activities in preparation for their assumption by the Family Health Services Project II. In Kenya and Senegal, JHPIEGO supported regional training for Anglophone and Francophone professionals from sub-Saharan Africa; the programs included training in voluntary surgical contraception and the treatment of sexually transmitted diseases and infertility. The JHPIEGO-supported program in Cote d'Ivoire focused on



curriculum development, particularly at the School of Midwifery. This year JHPIEGO supported an in-country academic skills course and a curriculum development-assessment workshop at which participants drafted a comprehensive module in reproductive health for the school of midwifery (Figure 2); the module included learning objectives, detailed content listing, and instructional methods and resources.

JHPIEGO supported regional training in Kenya, Morocco, and Senegal for professionals from Benin, Botswana,

Burkina Faso, Cameroon, the Central African Republic, Congo, Cote d'Ivoire, Gambia, Ghana, Guinea, Lesotho, Madagascar, Mali, Nigeria, Somalia, Sudan, Tanzania, Tchad, Togo, Uganda, Zaire, and Zimbabwe. Africans participating in the U.S. training program were from Benin, Botswana, Burkina Faso, Burundi, Cameroon, Central Africa Republic, Cote d'Ivoire, Gambia, Ghana, Kenya, Lesotho, Madagascar, Mali, Mauritania, Mauritius, Niger, Nigeria, Rwanda, Senegal, Somalia, Sudan, Togo, Uganda, Zaire, Zambia, and Zimbabwe.

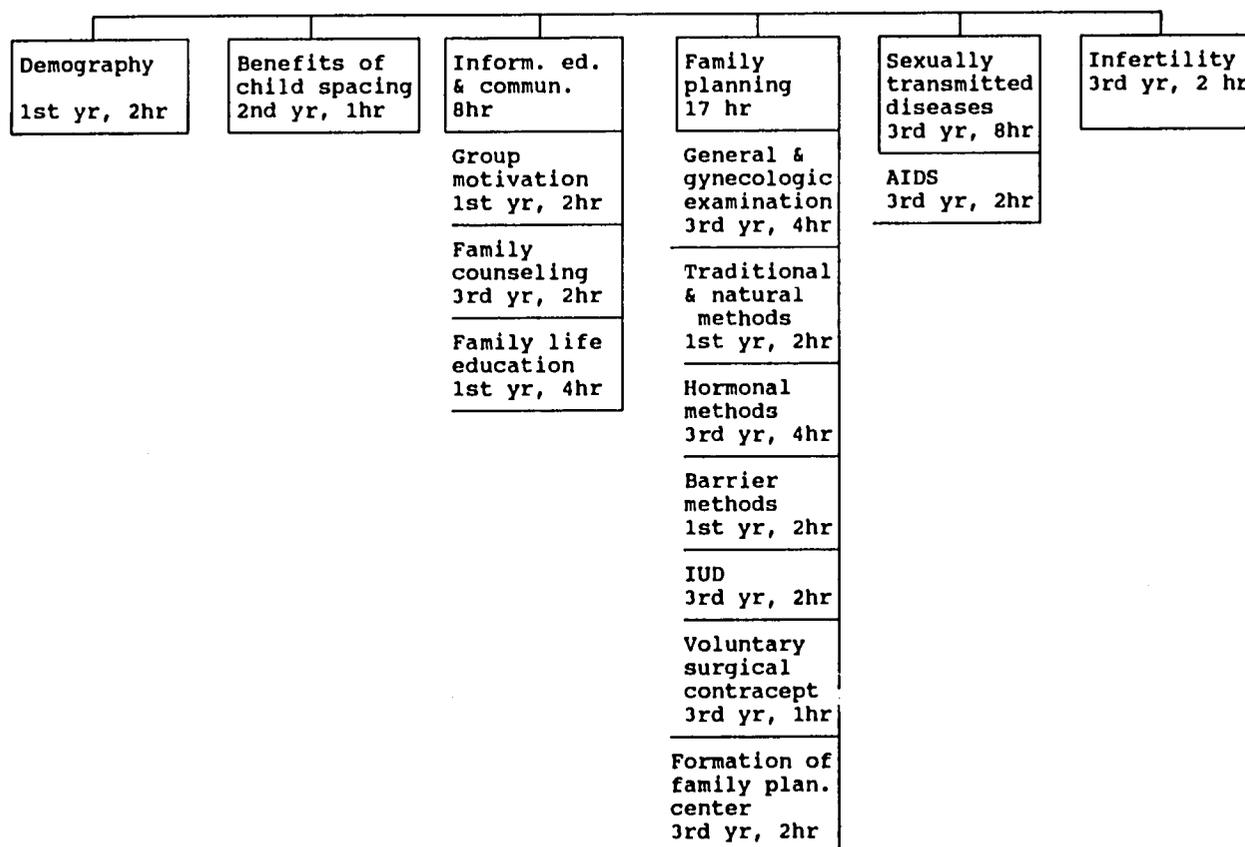


Figure 2 Reproductive health module for the school of midwifery in Cote d'Ivoire

Table 1 JHPIEGO-supported programs in Africa, FY 1987

Benin

NCA-96 Didactic national program with Ministry of Health to train all supervisory and senior level provincial and district personnel
Reproductive health update seminars for physicians, nurses, and midwives working in rural areas. Clinical training in family planning techniques (including IUD insertion) and STD treatment.

Cameroon

NCA-50 Didactic national program with Ministry of Public Health
Training in reproductive health for anesthesia trainers with emphasis on local anesthesia for endoscopy and minilaparotomy.

Central African Republic

NCA-111 Didactic/clinical national program with Ministry of Health to train 150 tutors and 350 service providers
Tutorial and clinical skills update in maternal and child health and family planning, including IUD insertion.

Cote d'Ivoire

NCA-67 Didactic national program with Faculty of Medicine, University of Abidjan

Reproductive health education program for medical, nursing-midwifery, and paramedical students; pedagogical skills training for nursing and midwifery instructors.

TCA-13 Didactic national and regional program with the Faculty of Medicine, University of Abidjan.

Fourth year of multiyear program to integrate reproductive health education in the curricula of the Faculty of Medicine and schools of nursing and midwifery. Includes curriculum development workshop, an academic skills course for national and regional participants, educational materials, and consultant services.

Ghana

NCA-116 Didactic/clinical national program with Ministry of Health to train 42 nurse tutors and 60 nurses

Tutorial and clinical skills update in maternal and child health and family planning, including IUD insertion; curriculum development workshop for nursing education.

Kenya

NCA-101 Didactic/clinical national and regional program with Department of Obstetrics and Gynecology, Faculty of Medicine, University of Nairobi

Training in voluntary surgical contraception for physicians (minilaparotomy, laparoscopy), nurses (operating theatre techniques), and anesthetists (local anesthesia, conscious sedation). Treatment of STDs and infertility and child survival strategies also included.

Mauritius

NCA-73 Didactic/clinical national program with Ministry of Health, Maternal and Child Health and Family Planning Division

Second year of a 3-year training program emphasizing family planning and management of sexually transmitted diseases.

Nigeria

NCA-11 Didactic/clinical national and regional program with College of Medicine, University of Ibadan

Final year of 8-year laparoscopy training program for physicians and operating theatre nurses; local anesthesia/conscious sedation training for anesthesiologists and nurse-anesthetists; 7 Ghanaian physician-nurse teams trained in laparoscopy.

NCA-62 Didactic national program with Department of Obstetrics and Gynecology, University of Benin Teaching Hospital

Final year of 5-year physician training program in family planning and maternal and child health care; includes clinical tutorials.

NCA-70/TCA-8 Didactic/clinical national program with the College of Medicine, University of Ibadan

Final year of 4-year reproductive health/family planning training program for tutors of nurses, midwives, and community health workers; emphasis on IUD services.

NCA-80/TCA-12 Didactic/clinical national program with University of Jos, Department of Obstetrics and Gynecology

Three-year reproductive health training program for state government physicians, including clinical training in infertility and STD management, high-risk obstetrics, and IUD services; includes some private physicians and residents at Jos University Teaching Hospital.

Table 1 (continued) JHPIEGO-supported programs in Africa, FY 1987

Nigeria (continued)

NCA-81 Didactic/clinical national program with Nigerian military
Second year of multiyear reproductive health training for physicians and nurse-midwives in the Nigerian military; includes training in ORT, immunization, and IUD services.

NCA-89 Didactic/clinical national and regional program with the College of Medicine, University of Ibadan

Three-year program to train physicians, nurses, and midwives in family planning services and the diagnosis, treatment, and prevention of STDs.

NCA-93/TCA-10 Didactic national program with College of Medicine, Department of Nursing, University of Ibadan

Program for nurse and midwifery tutors emphasizing teaching methodology for an integrated reproductive health curriculum; goal is to train tutors from all Nigerian states; third and final year of program.

NCA-97 Didactic/clinical national program with University of Nigeria Teaching Hospital, Enugu, Anambra State

Family planning and maternal and child health training for nurse-midwife practitioners, student nurses and student midwives, and physicians. Training in IUD services for nurse-midwives and physicians; second year of 3-year program.

NCA-115 Didactic national program with Institute of Health, Ahmadu Bello University, Department of Nurse Education

Workshop for principals and tutors of nursing and midwifery schools in northern states to gain support for the integration of family planning and reproductive health into the school curricula. One-year program building on 1984 curriculum development workshop in Ibadan (NCA-69).

TCA-5 Didactic national program with Institute of Health, Ahmadu Bello University, in collaboration with the Ministry of Health, Kaduna State; clinical training included under TCA-6.

Postgraduate or refresher training in reproductive health for physicians, senior nurse-midwives, and community health officers working for Ministry of Health; goal is to train two health workers at each health center in Kaduna State; fourth year of program (formerly NCA-48).

TCA-7 Didactic/clinical national program with Department of Obstetrics and Gynecology, College of Medicine, University of Lagos; continues NCA-84.

Training in immunization, family planning, and oral rehydration therapy (IFPORT) for physicians; clinical training in IUD services and minilaparotomy; final year of 4-year program.

Rwanda

NCA-114 Didactic/clinical national program with National University of Rwanda

Training in reproductive health for obstetrician/gynecologists and general practitioners from hospitals throughout Rwanda; emphasis on family planning techniques and clinical training in IUD services; first and second years of 3-year program

Senegal

NCA-75 Didactic/clinical national and regional program with Faculty of Medicine and Pharmacy, University of Dakar

Training in family planning and STD management and treatment for physicians and nurse-midwives; laparoscopy training for physicians and operating room nurses; third year of program.

Zimbabwe

NCA-87 Didactic/clinical national program with Zimbabwe National Family Planning Council (ZNFPC), Ministry of Health

Training in reproductive health and teaching methodology for nurse tutors, clinical instructors, and nurses working toward diploma of Nurse Education and Community Nursing at Harare School of Nursing; third year of 3-year program.

NCA-105 Didactic/clinical national program with ZNFPC, Ministry of Health, in collaboration with the University of Zimbabwe

Reproductive health training for general medical officers, operating theatre nurses, and anesthetists; clinical training in endoscopy and minilaparotomy.

ASIA/NEAR EAST

JHPIEGO's strategy in Asia and the Near East focuses on strengthening reproductive health training at medical and nursing/midwifery schools. JHPIEGO is also devoting more resources to the training of nurses and midwives in reproductive health services. Educational programs teach skills for assessing and developing reproductive health curricula and educational materials, and for strengthening

the teaching, program planning, and research skills of faculty and key professionals. Another initiative in the region is the upgrading of regional training centers to offer comprehensive programs for professionals from key national and regional institutions. In Asia, JHPIEGO has used distance learning techniques to make it easier for professionals to attend courses without leaving their jobs.



Asia

During FY 1987, JHPIEGO supported in-country programs in Indonesia, Papua New Guinea, the Philippines, and Thailand (Table 2). The program in Papua New Guinea, JHPIEGO's first in that country, is designed for nurses and health extension officers and includes the broadcasting of courses over the educational radio station. JHPIEGO's long-standing program in Thailand is being modified to offer specialized regional training for Asian professionals. The program in Indonesia is designed to provide intensive standardized training in voluntary surgical contraception to all of the nation's master-trainers.

Regional training in Asia was conducted in Thailand for professionals from Bangladesh, the Cook Islands, Indonesia, Malaysia, Nepal, Pakistan, Papua New Guinea, the Philippines, and Sri Lanka; professionals from Papua New Guinea were also trained in the Philippines. Asian professionals attending courses in the United States were from Bangladesh, Indonesia, Malaysia, Nepal, Pakistan, Papua New Guinea, the Philippines, Sri Lanka, and Thailand.

Near East

In the Near East, JHPIEGO supported in-country programs in Egypt, Morocco, and Turkey (Table 3). The program in Morocco provided comprehensive reproductive health training, particularly in clinical family planning services, for professionals from Morocco and Francophone countries in sub-Saharan Africa. JHPIEGO supported two programs in Turkey focusing on voluntary surgical contraception and IUD services. JHPIEGO-supported programs in Egypt, which focused on laparoscopy training and IUD insertion training for nurses, entered their final phases during the year.

JHPIEGO supported regional training for Near Eastern professionals from Algeria, Morocco, and Turkey. The U.S. training program included professionals from Egypt, Iraq (funded by the Noyes Foundation), Morocco, Tunisia, and Turkey.

Table 2 JHPIEGO-supported programs in Asia and Oceania, FY 1987

Indonesia

NCA-27 Didactic national program with Department of Obstetrics and Gynecology, School of Medicine, University of Indonesia

Training in fertility management and hospital administration for general practitioners, paramedical workers, and administrators from secondary (Type C) hospitals; includes follow-up surveys to assess progress in improving reproductive health services in hospitals.

NCA-110 Didactic/clinical national program with the Indonesian Association for Secure Contraception (PKMI)

Refresher training in voluntary surgical contraception for PKMI trainers; 1-year program.

Papua New Guinea

TCA-2 Didactic national program with the Department of Health

Reproductive health education via radio for nurses and health extension officers; includes program development workshops, teaching guides distributed to in-service tutors, and once-a-month broadcasts over the educational radio channel.

Philippines

NCA-112 Didactic/clinical national and regional program with the Mary Johnston Hospital, Manila

Training of physician-nurse teams in reproductive health with emphasis on voluntary surgical contraception; includes follow-up visits and an evaluation conference for physicians and nurses trained in previous years.

NCA-117 Didactic national program with the Association of Deans of Philippine Colleges of Nursing

Curriculum development program for nursing schools; includes drafting of syllabus; skill survey of master-trainers, and a master-trainer reproductive health workshop focusing on needs identified by

the survey; implementation of the syllabus by colleges of nursing will be evaluated during site visits; first year of multiyear program.

NCA-121 Didactic national program with University of the Philippines, Department of Obstetrics and Gynecology

Creates a continuing education course in reproductive health for faculty and consultants in obstetrics and gynecology; supports a curriculum development workshop and six courses; first year of 3-year program.

NCA-122 Didactic/clinical national program with the Mary Johnston Hospital, Manila

Facilitates the certification in VSC procedures of ob/gyn residents who have had previous training; supports a curriculum development workshop for a standardization course, 20 courses for standardization training in VSC, and follow-up of trainees; first year of 2-3 year program.

Thailand

NCA-109 Didactic/clinical national and regional program with Chulalongkorn University, Department of Obstetrics and Gynecology

Training of physician-nurse teams in diagnostic and therapeutic laparoscopy; microsurgery training for regional physicians; academic skills training for medical and nursing school faculty; training for midlevel managers and faculty in the management of integrated reproductive health and basic health services; continuing program.

Table 3 JHPIEGO-supported programs in the Near East, FY 1987

Egypt

NCA-45 Didactic/clinical national program with Department of Obstetrics and Gynecology, Shatby University Hospital, Alexandria

Training in reproductive health for physicians and nurses; clinical training in laparoscopy for physician-nurse teams and in IUD services for nurses; seventh year of multiyear program.

Morocco

NCA-20 Didactic/clinical national and regional program with National Training Center in Human Reproduction (CNFRH), Ministry of Public Health

Training in reproductive health for Moroccan and Francophone African and Near Eastern obstetrician-gynecologists, general physicians, operating room nurses, nurse-midwives, and anesthetists; clinical training in laparoscopy for ob/gyn physicians and O.R. nurses, and in IUD services for general physicians and nurse-midwives; courses in STD management and microsurgery for Moroccan participants; fourth year of 6-year program.

Turkey

NCA-22 Didactic/clinical national program with General Directorate of Mother/Child Health and Family Planning (GD MCH/FP), Ministry of Health and Social Assistance

Training in reproductive health for obstetricians, gynecologists, nurses, and paramedical workers; clinical training in laparoscopy for physician and operating room nurse teams; update training in reproductive health for nurse supervisors and nurse trainers; seventh year of multiyear program.

NCA-86 Didactic/clinical national program with GD MCH/FP

Reproductive health training for general practice physicians, nurse-midwives, and paramedical workers; clinical training in IUD services; second year of 3-year program.

LATIN AMERICA AND THE CARIBBEAN

JHPIEGO's strategy in Latin America and the Caribbean focuses on establishing self-sufficient training capabilities. To achieve this goal, JHPIEGO has been moving in the following broad directions in the region:

- From U.S. training, to regional training of professionals from several countries, to in-country training.
- From the training of individual physicians to the training of health teams.
- From in-service to undergraduate training.
- From a focus on physicians and medical students to a wider perspective that includes nursing and nursing students.
- From centralized, single site in-country training to decentralized, multi-site in-country training.

The content of training programs has also shifted away from laparoscopy training and toward minilaparotomy training, and from narrowly focused surgical training to more comprehensive training encompassing the assessment of reproductive risk and child spacing as a child survival strategy.

In fiscal 1987, JHPIEGO supported in-country training programs in Brazil, Colombia, Costa Rica, Guatemala, Haiti, Jamaica, Mexico, and Peru (Table 4). In Brazil and Peru, JHPIEGO supported reproductive risk programs in which paramedical personnel were taught to classify women by age, parity, interval since last birth, and previous obstetrical history. Based on these criteria, the

health workers refer high-risk women to physicians who have been trained by the program in clinical and surgical techniques of contraception. In Colombia, JHPIEGO's goal is to train nurses and at least 50 percent of the general physicians in the social security system in general reproductive health with a clinical emphasis on IUD management. In Jamaica, JHPIEGO supported reproductive health courses that were broadcast to six island nations over a satellite-based interactive teleconferencing system. Training programs at the undergraduate level in Mexico, Colombia, and Guatemala take varying approaches, but incorporation of the program content into the schools' standard curricula is a common goal.

JHPIEGO supported regional training in Costa Rica for Latin American professionals from Belize, El Salvador, and Honduras. Training at the Educational Center in Baltimore was provided for professionals from Barbados, Brazil, Colombia, Costa Rica, Guatemala, Jamaica, Mexico, St. Kitts, and St. Lucia.

Table 4 JHPIEGO-supported programs in Latin America and the Caribbean, FY 1987

Brazil

NCA-61 Didactic/clinical national program with BEMFAM, Sociedade Civil Bem-estar Familiar no Brasil (Brazilian civil society for family welfare)

Establishes reproductive risk classification and referral systems in Pernambuco and Rio states; trains physicians in reproductive health, including IUD services and minilaparotomy; paramedical workers in modern contraceptive techniques, the concept of reproductive risk, and the use of the classification and referral system; includes advocacy meetings for local political leaders. third year of 4-year program.

NCA-103 Didactic/clinical national program with CPAIMC, Centro de Pesquisas de Assistencia Integrada a Mulher e a Crianca (Center for research and integrated assistance to mothers and children)

Supports training of teams of obstetrician-gynecologists, anesthesiologists, and registered or auxiliary nurses in reproductive health with emphasis on minilaparotomy or laparoscopy; includes a seminar for ob/gyn faculty in curriculum development, evaluation methodology, and instructional resources for reproductive health education; second year of 3-year program.

Colombia

NCA-59 Didactic/clinical national program with ACEP, Asociacion Colombiana para el estudio de la poblacion (Colombian association for the study of population)

Training of general practitioners and nurses in reproductive health with emphasis on IUD and oral contraceptive services; final year of 4-year program.

NCA-120 Didactic national program with ACEP

Fertility management education courses for medical and nursing students; includes advocacy meetings for nursing and medical school deans and coordinators, course standardization meetings with professors, and supervisory visits to promote integration of course into regular medical and nursing school curricula; first year of 3-year program.

Costa Rica

NCA-56 Didactic/clinical national and regional program with CENDEISSS, Centro Nacional de Docencia e Investigacion en Salud y Seguridad Social (National center for training and research in health and social security)

Training of general practitioners in reproductive health with emphasis on IUD insertion and management; includes evaluation workshop with previous program participants, faculty, and staff; second year of 3-year program.

Guatemala

NCA-42 Didactic/clinical national program with APROFAM (Association for the protection of the family)

Reproductive health education program for medical students; training of recent graduates in IUD services; fifth year of program.

Table 4 (continued) JHPIEGO-supported programs in Latin America and the Caribbean, FY 1987

Haiti

NCA-91 Didactic/clinical national program with Division of Family Hygiene and Nutrition, Department of Public Health and Population, Ministry of Public Health

Team training for physicians and operating theatre nurses in reproductive health with emphasis on minilaparotomy, laparoscopy, and vasectomy; training in local anesthesia and conscious sedation for anesthetists, contraceptive services for nurses assigned to MOH health centers, and reproductive health and perinatal medicine for obstetrician-gynecologists and pediatricians.

Jamaica

NCA-63 Didactic national and regional program with University of the West Indies Distance Teaching Experiment (UWIDITE)

Satellite courses in reproductive health, including the management of STDs, for physicians and nurses from Caribbean nations on the UWIDITE network: Jamaica, Antigua, Barbados, Dominica, Grenada, St. Lucia, and Trinidad.

Mexico

NCA-74 Didactic/clinical national program with Hospital Civil of Guadalajara

Training in reproductive health with emphasis on laparoscopy for physician-nurse-anesthetist-anesthesiologist teams; includes

laparoscopy review courses for physicians with previous training in laparoscopy, conference to standardize laparoscopy techniques, and update seminar on gynecology and reproductive health; second year of 3-year program.

NCA-106 Didactic national program with Mexican Association of Medical Schools (AMFEM)

Fertility management training for Mexican nursing students; includes advocacy meetings for nursing school deans to integrate courses into curricula, and fertility management courses for nursing school faculty; first year of 3-year program.

Peru

NCA-66 Didactic/clinical national program with the Ministry of Health in cooperation with the Institute of Social Security

Training in reproductive health of obstetrician-gynecologists, general practitioners, and paramedical workers; clinical training in IUD services and minilap for ob/gyn physicians and in IUD services for general practitioners; establishment of reproductive risk classification and referral system; first year of 3-year program.

THE JHPIEGO EDUCATIONAL CENTER

The JHPIEGO Educational Center in Baltimore provides participants with the opportunity to step away from their day-to-day responsibilities and gain a fresh perspective on reproductive health problems through courses taught by the staff of The Johns Hopkins Medical Institutions and discussions with professionals from other developing countries. The Center provides JHPIEGO with the opportunity to identify leaders in reproductive health who can administer national programs, and it is an educational laboratory where courses are perfected before they are offered in developing countries.



During fiscal 1987, the Educational Center conducted seven courses for 122 participants:

- Program planning for reproductive health services (twice in English)
- Academic skills in reproductive health (once in French and once in English)
- Advances in reproductive health for administrators of family health and family planning programs (once in French).
- Gynecology and Obstetrics: An Update of Modern Technologies (once in English)
- Promoting Reproductive Health through Management of the Infertile Couple and Control of Sexually Transmitted Diseases (once in English)

Since JHPIEGO's inception, a total of 2,669 health care professionals have been trained in the United States at the Educational Center or at Washington University in St. Louis or the University of Pittsburgh, when those centers were active in the 1970s.

JHPIEGO has introduced computer-assisted instruction into several of its courses in the Educational Center. Participants have the opportunity to use programs that simulate clinical situations in reproductive health: diagnosing and treating an obstetric complication and evaluating a woman for a contraceptive method. JHPIEGO plans to include a third program, "Understanding Biostatistics," in its academic skills courses. JHPIEGO is also planning to develop its own instructional software and to include computer-assisted instruction in in-country programs as well. In a survey of institutions in developing countries, JHPIEGO found that 45% had microcomputers and could take advantage of computer-assisted instruction software.



EVALUATION

JHPIEGO evaluates the educational programs that it supports in a number of ways:

- Testing participants' knowledge at the beginning and end of a course
- Written evaluations by participants immediately after a course has been completed
- Evaluations of clinical training
- Surveys sent to in-country and regional program participants six months to a year after they attend a course (Annual Participant Survey or APS).

At the JHPIEGO Educational Center, an attitudinal survey is also administered at the end of every course to determine the participants' attitudes toward reproductive health issues. The survey is administered again 12-18 months following the course to see if the participants' attitudes have changed. The information provided by these evaluation activities allows JHPIEGO to monitor the educational programs that it supports.

PUBLICATIONS

JHPIEGO has published a number of books and monographs on reproductive health, several of which have been the proceedings of JHPIEGO-sponsored conferences. During fiscal 1987, JHPIEGO produced a slide/lecture set on contraception and reproductive health that is being distributed to selected health care leaders in developing countries who have teaching responsibilities. Each lecture is 25-30 pages long and includes teaching objectives, bibliography, five multiple choice questions, and 20 color slides with descriptions. JHPIEGO is currently working on a French translation.

The proceedings of a conference that JHPIEGO sponsored in collaboration with the World Health Organization, "Reproductive Health Education and Technology: Issues and Future Directions," were nearly finished at the end of the fiscal year. Publication is expected in the fall of 1988.

FISCAL 1987 BY THE NUMBERS

Table 5 Training Statistics

Category	FY 1987	Since Inception
Participants	13,103	55,580
National and regional U.S.	12,981	52,911
U.S.	122	2,669
Professionals trained	4,329	21,474
Physicians	1,845	12,111
Nurses, midwives, parameds	2,321	7,833
Administrators	163	1,530
Undergraduates trained	8,774	34,106
Medical	500	24,050
Nursing/midwifery	8,274	10,056
Clinical trainees	1,979	12,140
Physicians	1,134	7,945
Nurses/midwives	845	4,195
Institutions represented*	1,417	6,732
Medical schools	82	440
Nursing/midwifery schools	123	349
Clinics	644	1,841
Hospitals	386	3,236

*Medical and nursing schools, hospitals, clinics, ministries of health, etc.

Table 6 Program Support Statistics

Laproscopos [®] shipped	67
Minilaparotomy kits shipped	88
IUD kits shipped	854
Short-term technical assistance visits*	121
Active equipment maintenance centers**	8
Value of educational materials shipped	\$171,972
Educational packages	\$127,137
Films and Slides	\$23,876
Anatomical models	\$20,959

* By JHPIEGO staff or consultants

**Brazil, Ghana, Malaysia, Morocco, Nigeria, Philippines, Thailand, Turkey.

TRENDS

The major trends in the training figures are:

- The rapid increase in the pace of training in the 1980s
- The focus on training of African health care professionals
- The shift away from laparoscopy training
- The increasing numbers of nurses, midwives, and paramedical workers trained annually

Pace of Training

The dramatic increase in the pace of training in the 1980s (Figure 3) has been fueled primarily by the shift of the site of training programs from the United States to the developing countries, and by the large-scale undergraduate training programs in Latin America. As more programs have been conducted overseas, the number of participants trained in the United States has decreased to about 100 per year.

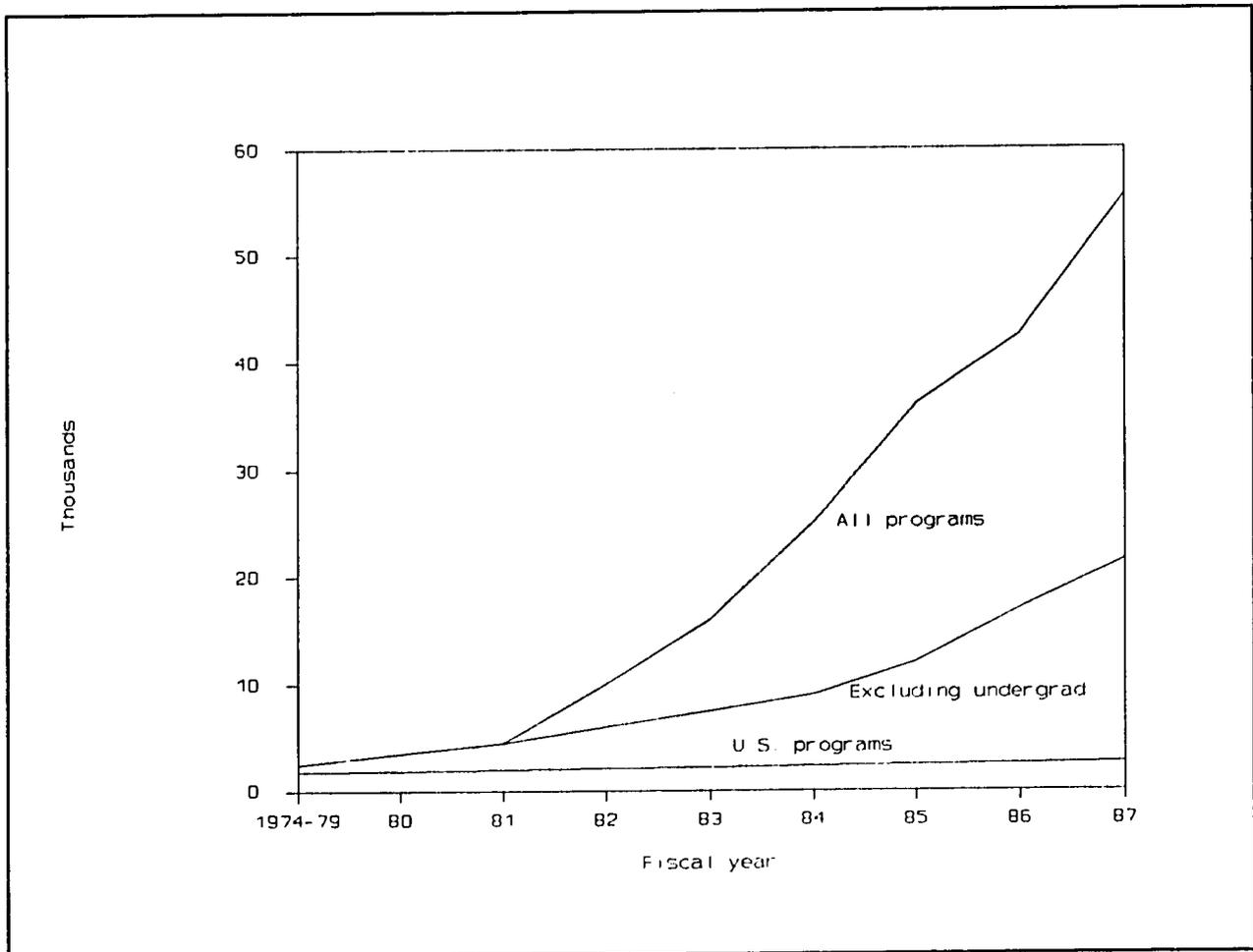


Figure 3 Cumulative numbers of participants in JHPIEGO-supported programs, inception - FY 1987

Training in Africa

JHPIEGO is currently devoting the largest share of its programmatic resources to the training of African health care professionals. Initially, Asian professionals made up the majority of participants in JHPIEGO-supported programs. In the early 1980s, professionals from Latin America and the Caribbean (LAC) dominated, but since 1984, the number of African participants

has been approaching the number of LAC professionals (undergraduates are excluded from these figures). In FY 1987, the two groups made up equal proportions of the total participants. The same trend from Asian, to Latin American, to African majorities can be seen in the U.S. training program (Figure 4).

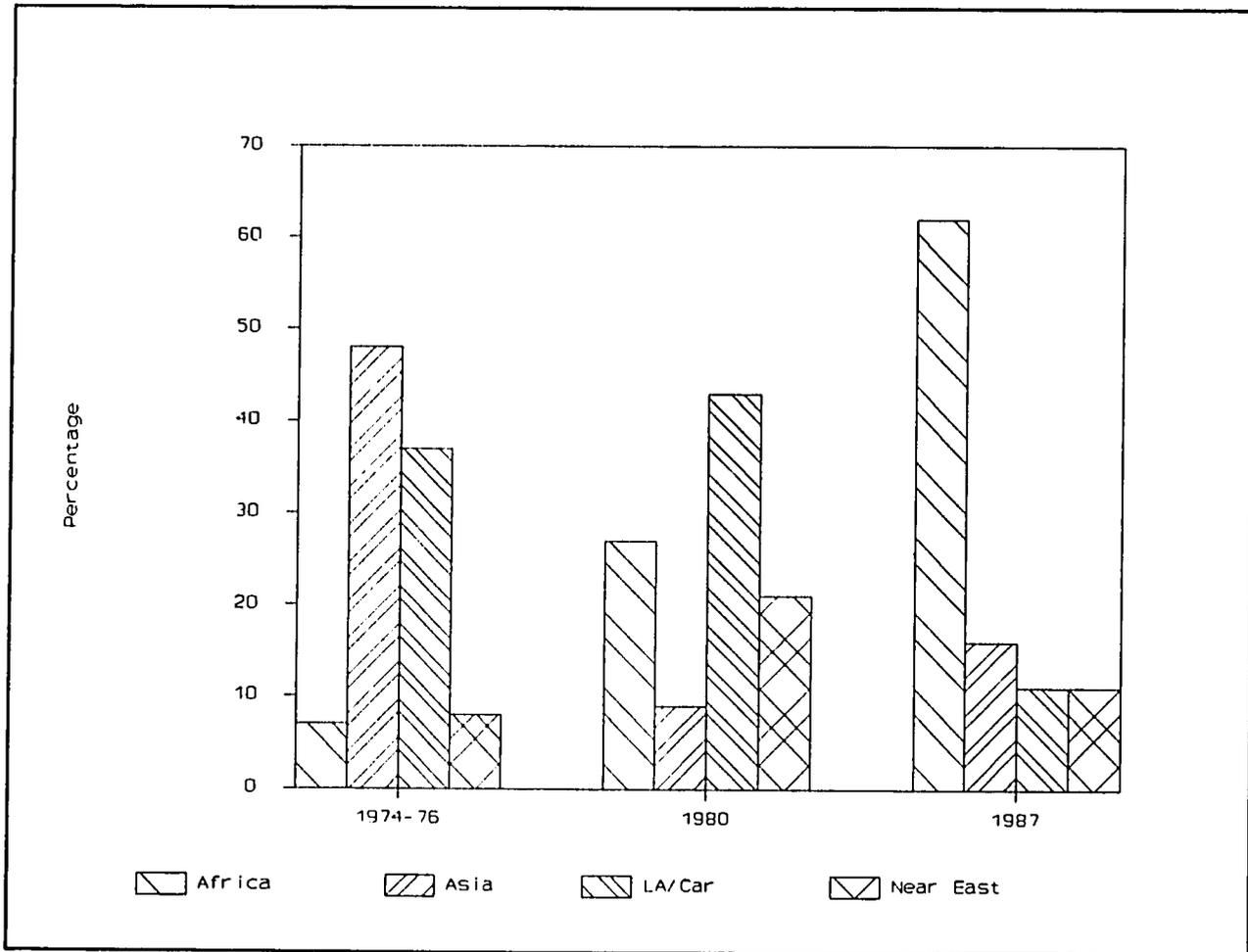


Figure 4 Distribution of participants in the U.S. training program by region

Shift from Laparoscopy

The shift away from laparoscopy training can be seen if FY 1987 and 1986 figures are compared. The numbers trained in laparoscopy decreased from 519 in fiscal 1986 to 354 in FY 1987. The numbers trained in IUD services almost doubled from 556 in FY 1986 to 1000 in FY 1987.

The number of Laprocaters® or laparoscopic systems shipped dropped from 140 in fiscal 1986 to 67 in fiscal 1987, while 88 minilaparotomy kits and 854 IUD kits were shipped during fiscal 1987.



Nurse, Midwife, and Paramedical Training

The yearly number of nurses, midwives, and paramedical workers participating in JHPIEGO-supported programs has been steadily increasing, and fiscal 1987 was the first year that it exceeded the number of physicians (Figure 5). JHPIEGO's support of nurse, midwife, and paramedical training takes several forms: JHPIEGO has a policy of training physician-nurse-anesthetist teams in voluntary surgical contraception. JHPIEGO supports IUD training programs for nurses in countries that allow them to provide IUD services.

The rapid expansion of JHPIEGO's activities in Africa has included a large number of programs for the training of nurses. Because of the shortage of physicians in Africa, nurses are often in the position of managing rural health clinics. In Latin America, JHPIEGO is supporting the development of reproductive risk classification and referral systems in Brazil and Peru, which require the training of large numbers of paramedical workers to conduct surveys of women and classify them according to the risk that they would face during a pregnancy.

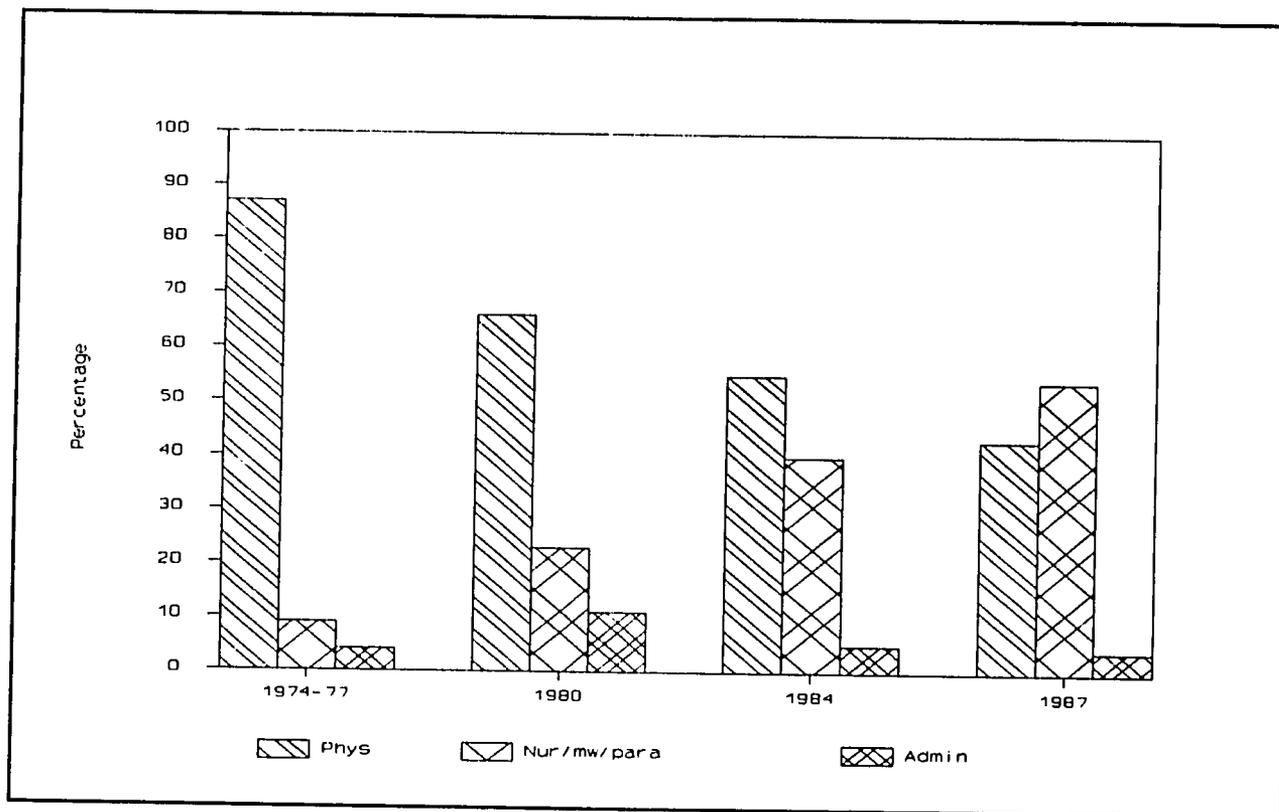


Figure 5 Distribution of health care professionals in JHPIEGO-supported programs by occupation

FINANCIAL REPORT

Fiscal 1987 was JHPIEGO's first under Cooperative Agreement No. DPE-3045-A-00-7004, which went into effect on May 1, 1987. JHPIEGO had been previously funded under Cooperative Agreement No. AID/DSPE CA-0083. Though it expired on April 30, 1987, language in this agreement allowed JHPIEGO to enter into subagreements for the performance of activities that extended beyond the expiration date. The financial

information set forth in Recap "A" serves as a combined fiscal report for both agreements. Recaps "B" and "C" report on each agreement separately. Dollar figures in the column in Recap "B" labeled "Projected Disbursements and Unliquidated Obligations as of 4-30-88," represent bona fide commitments made by JHPIEGO prior to April 30, 1987, that have not yet been spent.

JHPIEGO 1987 Annual Report

Recap A AID Grants DSPE CA-0083 & DPE 3045-A-00-7004-00

	Disbursements			Proj. Disbur. & Unliquid. Oblig. as of 4/30/88	TOTAL
	9/1/80-9/30/86	10/1/86-4/30/87	5/1/87-4/30/88		
Central Cost	10,484,311	1,334,135	2,312,922	583,027	14,714,395
Planning & Development	1,425,478	170,629	169,827	730,439	2,496,373
Training & Education					
Participant Cost	3,681,878	244,386	641,340	112,220	4,679,824
Field Training	603,116	96,046	204,740	397,633	1,301,535
Equipment	4,481,824	471,802	809,300	956,040	6,718,966
National/Regional Progs.	11,153,294	1,710,113	2,894,958	3,217,603	18,975,968
JHPIEGO Educ. Ctr.	1,253,797	90,037	135,360	144,389	1,623,583
Total Training & Educ	21,173,909	2,612,384	4,685,698	4,827,885	33,299,876
TOTAL	\$33,083,698	\$4,117,148	\$7,168,447	\$6,141,351	\$50,510,644

Recap B AID Grant DSPE CA-0083

	Disbursements			Proj. Disbur. & Unliquid. Oblig. as of 4/30/88	TOTAL
	9/1/80-9/30/86	10/1/86-4/30/87	5/1/87-4/30/88		
Central Cost	10,484,311	1,334,135	727,233	4,406	12,550,085
Planning & Development	1,425,478	170,629	90,585	506,587	2,193,279
Training & Education					
Participant Cost	3,681,878	244,386	343,695	21,240	4,291,199
Field Training	603,116	96,046	184,969	111,189	995,320
Equipment	4,481,824	471,802	768,804	368,634	6,091,064
National/Regional Progs.	11,153,294	1,710,113	2,710,934	850,705	16,425,046
JHPIEGO Educ. Ctr.	1,253,797	90,037	135,360	2,813	1,482,007
Total Training & Educ	21,173,909	2,612,384	4,143,762	1,354,581	29,284,636
TOTAL	\$33,083,698	\$4,117,148	\$4,961,580	\$1,865,574	\$44,028,000

Recap C AID Grant DPE-3045-A-00-7004-00

	Disbursements 5/01/87-4/30/88	Proj. Disbur. & Unliquid. Oblig. as of 4/30/88	Total
Central Cost	1,585,689	578,621	2,164,310
Planning & Development	79,242	223,852	303,094
Training & Education			
Participant cost	297,645	90,980	388,625
Field Training	19,771	286,444	306,215
Equipment	40,496	587,406	627,902
National/Regional Progs.	184,024	2,366,898	2,550,922
JHPIEGO Educ. Ctr.	-----	141,576	141,576
Total Training & Educ	541,936	3,473,304	4,015,240
TOTAL	\$2,206,867	\$4,275,777	\$6,482,644

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