

Revised: 10/21/85

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NCA-63

**SATELLITE EDUCATION PROJECT  
IN REPRODUCTIVE HEALTH  
FOR THE CARIBBEAN**

**SUBMITTED BY  
ADVANCED TRAINING AND RESEARCH IN  
FERTILITY MANAGEMENT UNIT,  
DEPARTMENT OF OBSTETRICS AND GYNECOLOGY,  
UNIVERSITY OF THE WEST INDIES**

**October, 1985**

Revised: 10/21/85

## PROJECT SUMMARY

**TITLE:** Satellite Education Project in Reproductive Health Education for the Caribbean

**PROJECT DIRECTOR:** Dr. Hugh Wynter, Director, ATRFM Unit

**GRANTEE:** Advanced Training and Research in Fertility Management (ATRFM) Unit, Department of Gynaecology and Obstetrics, University of the West Indies, Jamaica

**GRANTOR:** The Johns Hopkins Program for International Education in Gynaecology and Obstetrics

**PROJECT DURATION:** Three Years

**PERIOD OF FUNDING:** December 1, 1985 - November 31, 1986

**FUNDS TO BE APPROVED:** \$32,028

### SUMMARY:

This project is implemented by the ATRFM Unit in collaboration with the University of the West Indies Distance Teaching Experiment (UWIDITE). Training in reproductive health for health personnel in Barbados, Dominica, St. Lucia, Trinidad, Antigua and Jamaica is transmitted on a narrow-band teleconferencing system. ATRFM has delivered courses to physicians, nurses, and medical students.

During this project period ATRFM will conduct, via the satellite system:

1. one course for 35 physicians.
2. one course for 42 nurses.
3. one course for 40 medical students.
4. six consultations/case presentations for 15 - 30 physicians per session.

In addition, a project staff member, accompanied by a JHPIEGO staff member will conduct a needs assessment/evaluation visit to all sites to determine further training needs in maternal/child and reproductive health which can be addressed by use of the UWIDITE system.

JHPIEGO/Jamaica  
Program Period: 1-1-84/11-30-86  
Funding Summary

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Funding obligated Program Period: 1-1-84/11-30-85	\$135,262
Estimated actual expense Program Period: 1-1-84/11-30-85	<u>128,071</u>
Obligation carry-over to next period	\$7,191

Budget request for Program Period: 12-1-85/11-30-86	\$39,219
Less carry-over from Program Period: 1-1-84/11-30-85	<u>7,191</u>
Additional funds required for Program Period: 12-1-85/11-30-86	\$32,028

Funds obligated Program Period: 1-1-84/11-30-85	\$135,262
Funds to be obligated Program Period: 12-1-85/11-30-86	<u>32,028</u>
Total Obligation	\$167,290

Budget Summary  
(includes previously approved funds & funds requested)  
January 1, 1984 through November 30, 1986

In-Country Budget	\$114,139
Direct Support Budget	<u>53,151</u>
	\$167,290

JHPIEGO/Jamaica  
Program Period: 12-1-85/11-30-86  
Budget Summary

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In-Country

The rates to be paid and the overall budget were based on cost factors presented in the proposal to JHPIEGO. These cost factors, pending verification have been determined by JHPIEGO to be reasonable and necessary to accomplish the goals and objectives of the program.

I. Rate Comparison

	<u>NCA-63 Jamaica</u>	<u>NCA-92 Fiji</u>
Physicians	\$208	\$502
Midwives	\$204	\$485
Interns/Medical Students	\$150	\$233

The rate in Fiji includes participant travel and per diem costs of approximately \$308 per physician and midwife and \$118 for interns which substantiates the higher rates.

JHPIEGO/Jamaica  
Program Period: 12-1-85/11-30-86

COST COMPARISON

		<u>Program Periods</u>				
		<u>9-1-84/11-30-85</u>		<u>12-1-85/11-30-86</u>		
		JA 3.75 = \$1.00 U.S.		JA 6.55 = \$1.00 U.S.		
		<u>JA</u>	<u>U.S.</u>		<u>JA</u>	<u>U.S.</u>
<b>I. Administrative Costs</b>						
<b>A. Salaries</b>						
Project Director	10%	12,136	\$3,236	.83	10,073	\$1,538
Project Coordinator	100%	34,349	9,160	.83	28,515	4,353
Secretary	100%	12,312	3,283	.83	10,737	1,639
Sub-total		58,797	\$15,679		49,325	\$7,530

Salaries have decreased 51% in U.S. dollars because of the fluctuation in the exchange rates and a decrease in the level of effort. The secretary's salary has increased from 12,312 JA to 12,936 JA.

**B. Telecommunications**

1. UWIDITE		22,000	\$5,866		-	-
2. ATRFM		6,000	1,600		4,500	\$687
Sub-total		28,000	\$7,466		4,500	\$687

The cost factor of JA30 per call remains the same. The total costs in U.S. dollars has decreased approximately 90% because of the fluctuation in the exchange rate, the deletion of support for UWIDITE telecommunications, and a reduction in the number of telephone calls from four per month to three per month.

Cost Comparison contd.

		<u>Program Periods:</u>			
		9-1-84/11-30-85		12-1-85/11-30-86	
		<u>JA 3.75 = \$1.00 U.S.</u>		<u>JA 6.55 = \$1.00 U.S.</u>	
		<u>JA</u>	<u>U.S.</u>	<u>JA</u>	<u>U.S.</u>
B. contd.					
3. Site Coordination	(1,000 for 6 sites)	6,000	\$1,600	(1,000 for 6 sites)	6,000      \$916
C. Honorarium	(155 hrs @ \$90)	13,950	3,720	(56hrs @ \$90)	5,040      769
D. Educ. Materials	(96,375pgs at \$0.35)	33,732	8,995	(42,250pgs at \$0.35)	14,788      2,258
Sub-total			\$12,715		\$3,027

Because of the deletion of post graduate training, a reduction in the nurse courses from two to one, and the fluctuation of the exchange rate, the costs for honorarium and educational materials has decreased 76%.

E.\* UWIDITE User Fee

* New Cost Component	39,000	\$6,000
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II. Site Visits

Travel	900	\$2,038
Per Diem	(140/day for 10 days) style="text-align: right;">1,400	(151/day for 10days) style="text-align: right;">1,510

III. Rate Comparison

Phys.	\$212	\$208
Nurses	212	204
Medical Students	177	150

<u>Program Periods</u>			
9-1-84/11-30-85		12-1-85/11-30-86	
<u>JA 3.75 = \$1.00 U.S.</u>		<u>JA 6.55 = \$1.00 U.S.</u>	
<u>JA</u>	<u>U.S.</u>	<u>JA</u>	<u>U.S.</u>

III. Rate Comparison contd.

Case Presentations	\$36	\$107
Proj. Mgmt. Site Visits	2,300	4,303

The addition of costs for the UWIDITE User Fee causes the rate increase for the case presentations. Increased costs for travel and per diem as shown on the cost comparison and an increase in the length of the trip causes the increase in costs for the project management site visit.

JHPIEGO/JAMAICA  
 Program Period: 1-1-84/11-30-86  
 IN-COUNTRY BUDGET

Program Period: 1-1-84/11-30-85

Program Period: 12-1-85/11-30-86

Description	No. of Payments	Rate	Total	No. of Payments	Rate	Total	Total No. of Payments	Budget Total
Physicians	88		\$24,512	35	\$208	\$7,280	123	\$31,792
Nurses	170		\$43,360	42	\$204	\$8,568	212	\$51,928
Post Graduate Phys.	25		\$4,975				25	4,975
Medical Students	50		\$8,850	40	\$150	\$6,000	90	\$14,850
Case Presentations	10 sessions		\$360	6	\$107	\$642	16	\$1,002
Project Management Site visit	2		\$3,956	1	\$4,303	\$4,303	3	\$8,259
Evaluation Pilot Proj			\$533					\$533
Evaluation CME Courses			\$800					\$800
			\$87,346			\$26,793		\$114,139

JHPIEGO/Jamaica  
Program Period: 12-1-85/11-30-86  
Direct Support Budget

	<u>Program Periods</u>		
	<u>1-1-84/11-30-85</u>	<u>12-1-85/11-30-86</u>	<u>Cumulative</u>
I. Site Visits	\$7,512		\$7,512
II. Educational Materials	26,802	\$9,083	35,885
III. Shipping and Handling	<u>6,411</u>	<u>3,343</u>	<u>9,754</u>
	\$40,725	\$12,426	\$53,151

JHPIEGO/Jamaica  
Program Period: 12-1-85/11-30-86

BUDGET JUSTIFICATION

In-Country

The rates to be paid and the overall budget were based on cost factors as presented in the proposal to JHPIEGO. These cost factors presented in local currency have been converted to U.S. Dollars based on JA 6.55 = \$1.00 U.S.

I. Tuition Rates

\$208 each for 35 physicians

\$204 each for 42 nurses

\$150 each for 40 Medical Students

Cost factors that comprise the administrative costs consist of salaries, (as outlined in the proposal), travel and per diem for the project coordinator, inter-island telephone costs, and indirect cost. The total administrative cost is divided by the total number of participants to derive the administrative base rate. Added to the administrative base rate are pertinent cost factors as they pertain to each type of training. The cost factors consist of honorarium, educational materials, shipping and handling of the educational materials to the sites of training and UWIDITE User Fee. The calculation of these rates is shown on Attachment I, Section I.

II. Case Presentation

\$107 each for 6 sessions

There will be six one-hour case presentations. Cost factors included in the rate consist of honorarium for three hours of preparation and presentation time, and UWIDITE User fee for six hours. The calculation of this rate is shown on Attachment I, Section II.

III. Project Management Site Visits

\$4,303 each for 1 trip

The project coordinator will make one trip to all the participating sites. The costs include travel and per diem.

Direct Support

To meet the needs of the program, JHPIEGO will provide additional support determined necessary by JHPIEGO to accomplish the goals and objectives of the program.

I. Educational Materials

JHPIEGO will provide thirty-eight individual physician's packages, forty-five individual nurse packages, five copies each of Health Providers Guide to Contraception, Family Planning: It's Impact on the Health of Women and Children and An Introduction to Reproductive Physiology and Contraceptive Methods: A Programmed Instruction, for distribution to the participants with extra packages provided for extra participants. The cost factors are shown on Attachment II, Section II.

II. Shipping and Handling

JHPIEGO will pay shipping costs incurred for the shipping of educational materials to Jamaica. The estimated cost shown on Attachment II, Section III is based on a rate per pound.

JHPIEGO/Jamaica  
 Program Period: 12-1-85/11-30-86  
Identification of Cost Factors and Rate Calculation

## I. Development of Tuition Rates

## A. Administrative Cost Factors

1. Salaries	\$7,531
2. Site Coordinators	916
3. Telecommunications	687
4. Indirect Costs	<u>3,495</u>
Total Costs	\$12,629

## B. Rate Calculation (total cost divided by total number of participants)

$$\$12,629 \div 117 = \$108/\text{participant}$$

## C. Other Pertinent Cost Factors

## 1. Honorarium

a. Physicians - (8 2-hour sessions plus 2 4-hour session) 24 hrs @ \$13.74/hr $\div 35 =$	\$9/participant
b. Nurses - (10 2-hour sessions plus 1 4-hour session) 24 hrs @ \$13.74 $\div 42 =$	\$8/participant
c. Undergraduate - 5 sessions x 1 hour @ \$13.74/hr $\div 40 =$	\$2/participant

## 2. Educational Materials

a. Phys. - 1 course x 10 sessions x 40 sets per course x 35 pgs @ .05¢/pg $\div 35 =$	\$20/participant
b. Nurses - 1 course x 11 sessions x 50 sets per course x 35 pgs @ .05¢ $\div 42 =$	\$24/participant
c. Undergraduate - 1 course x 10 sessions x 45 sets x 20 pgs @ .05¢ $\div 40$	\$12/participant

## C. contd.

## 3. Shipping and Handling

- a. Phys. - 1 course @ \$76.33 x 5 sites  
÷ 35 = \$11/participant
- b. Nurses - 1 course @ \$76.33 x  
5 sites ÷ 42 = \$9/participant
- c. Undergraduate - 1 course @ \$61.06  
x 2 sites ÷ 40 = \$3/participant

## 4. UWIDITE User Fee

- a. Phys. - 21 hours @ \$100 ÷ 35 = \$60/participant
- b. Nurses - 23 hours @ \$100 ÷ 42 = \$55/participant
- c. Undergraduate - 10 hrs @ \$100 ÷ 40 = \$25/participant

## D. Rate Calculation

Cost Factors	<u>Type of Training</u>		
	<u>Phys.</u>	<u>Nurses</u>	<u>Undergraduate</u>
Adminis. Base	108	108	108
Honoraria	9	8	2
Educational Matls.	20	24	12
Shipping/Handling	11	9	3
UWIDITE User Fee	60	55	25
<b>RATE</b>	<b>208</b>	<b>204</b>	<b>150</b>

## II. Case Presentations

## A. Cost Factors

1. Honorarium - 3 sessions for 1 hr  
@ \$13.74 = \$41
2. UWIDITE User Fee - 6 hrs. @ \$100/hour 600
- Total \$641 - 6 =  
\$107/session

JHPIEGO/Jamaica  
Program Period: 12-1-85/11-30-86  
Identification of Cost Factors for Direct Support

Based on 8-31-85 B&F Report	<u>Program Periods</u>	
	<u>1-1-84/11-30-85</u>	<u>12-1-85/11-30-86</u>
I. Site Visits		
a. Travel & Per Diem	\$6,912	
b. Consultant Fee	600	
Total	\$7,512	- 0 -
II. Educational Materials		
a. 165 Physician Pkgs	(127) \$4,382	( 38) \$3,952
b. 242 Nurse Pkgs	(197) 15,864	( 45) 4,113
c. 468 <u>Health Providers Guide to Contraception</u>	(423) 5,267	( 45) 756
d. 359 <u>Family Planning, It's Impact, etc.</u>	(314) 358	( 45) 81
e. 256 Programmed Instruct.	(211) 931	( 45) 181
	<hr/> \$26,802	<hr/> \$9,083
III. Shipping and Handling	\$6,411	\$3,343
	<hr/> \$6,411	<hr/> \$3,343

JHPIEGO/Jamaica  
 Obligation Carry-Over

		<u>Projected</u>		<u>Actual</u>	<u>Balance</u>
<b>I. In-Country</b>					
Phys.	( 88)	\$24,512	( 88)	\$24,512	
Nurses	(170)	43,360	(170)	43,360	
Post Grad Phys	( 25)	4,975	( 25)	4,975	
Med. Students	( 50)	8,850	( 50)	8,850	
Case Presentations	( 10)	360	( 10)	360	
Proj. Mgmt Site Visits	( 2)	3,956	( 2)	3,956	
Eval.Pilot Proj.		533		533	
Eval.CME Course		800		800	
Sub-total		\$87,346		\$87,346	- 0 -
<b>II. Direct Support</b>					
<b>A. Site Visits</b>					
		\$9,626		\$7,512	
Sub-total		\$9,626		\$7,512	\$2,114
<b>B. Educational Material</b>					
1. Phys.Pkgs	(127)	\$6,587	(127)	\$4,382	
2. Nurse Pkgs	(197)	15,864	<sup>1</sup> (197)	15,864	
3. <u>Health Providers</u> <u>Guide to</u> <u>Contraception</u>	(423)	5,922	<sup>2</sup> (423)	5,267	
4. <u>Family Planning,</u> <u>It's Impact,</u> <u>etc.</u>	(314)	371	<sup>3</sup> (314)	358	
5. Programmed Instruct.	(211)	1,170	<sup>4</sup> (211)	931	
Sub-total		\$29,914		\$26,802	\$3,112

III. Shipping and Handling	\$8,376	\$6,411	
Sub-total	\$8,376	\$6,411	\$1,965
GRAND TOTAL	\$135,263	\$128,071	\$7,191

<sup>1</sup> Of the 197 nurse packages budgeted, 61 have been shipped to date at an actual cost of \$4,912. The remaining 136 are budgeted at the cost of \$10,952 shown in the board approved proposal.

<sup>2</sup> Of the 423 books budgeted, 262 have been shipped to date at an actual cost of \$3,013. The remaining 161 are budgeted at the cost \$2,254 shown in the board approved proposal.

<sup>3</sup> Of the 314 books budgeted, 153 have been shipped to date at an actual cost of \$168. The remaining 161 are budgeted at the cost of \$190 shown in the board approved proposal.

<sup>4</sup> Of the 211 books budgeted, 75 have been shipped to date at an actual cost of 251. The remaining 136 are budgeted at the cost of \$680 shown in the board approved proposal.

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## I. INTRODUCTION

This proposal presents the program for the third program period for the Satellite Education Project in Reproductive Health for the Caribbean (NCA-63). The development of this project was funded under a special project (NSP-10). The NCA-63 agreement was then signed into effect January 1, 1984, and renewed for a second program period on August 1, 1984. The second program period has now been extended through November 30, 1985.

The Satellite Education Project is implemented by the Advanced Training in Fertility Management (ATRFM) Unit collaboration with the University of the West Indies Distance Teaching Experiment. Education in reproductive health is transmitted via a narrow-band teleconferencing system to seven sites. These sites are Mona campus in Kingston and Montego Bay in Jamaica, Barbados, Dominica, St. Lucia, Trinidad, and Antigua.

The project has continued to be a success. In addition to the nurse and physician courses and consultations/case presentations presented during the first program period, two new types of courses were broadcast during the second period. These were an undergraduate review course for medical students and a postgraduate review course for ob/gyn physicians.

A satellite systems technician, employed by U $\bar{W}$ I $\bar{D}$ I $\bar{T}$  $\bar{E}$ , was available to help resolve technical problems during this past period. Also, presenters at the various sites are now more familiar and comfortable with the technology and better able to use it. For these reasons, project staff decided that the trip that had been budgeted for a telehealth consultant was not necessary.

JHPIEGO staff member, Dr. Giraud Foster, was invited to make a guest presentation during the program. During his visit to Mona Campus in June, 1985, he presented the final consultation/case presentation. This session was on Herpes and Gonorrhoea. Dr. Foster also gave an extra presentation on Subfertility to the Ob/Gyn Department at Mona campus .

The project was amended during this period to account for two situations:

- (1) the project coordinator's project salary was increased reflecting her

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appointment by UWI as a project coordinator; and (2) projected training figures were changed based on undersubscription of physicians for the physicians course and oversubscription of physicians for postgraduate course.<sup>1</sup>

## II. ACCOMPLISHMENTS

According to the project coordinator's narrative reports, the physicians course was very successful, with forty physicians graduating. (The original projection of fifty was not met because Dominica did not participate.) Taking into consideration the evaluation input from the first course, emphasis was placed on clinical topics and discussion time was increased which led to increased participation in class. The course was highly rated by the physicians.

All sites participated in the senior nurse courses and the objective of ten participants per course, per site, was amply met. There was a mix of nurses from hospitals, district health clinics, nursing schools and family planning associations. Presentations were highly evaluated by participants. Positive mention was made of sessions on Gynaecological Cancer Screening, Contraceptive Technology and First Trimester Wastage. Participants believed that the content of the sessions was relevant to their world of work and as a result of taking the course felt better equipped to deal with ob/gyn complications.

The objectives of the undergraduates course - to improve the students' knowledge in selected obstetric/gynecology topics, to clarify aspects of diagnosis and management and to increase their preparedness for the MBBS examinations - were met. This course evinced a high level of interest, particularly at Mona and Barbados. The quality of interaction in the course was good, with students asking key questions and expressing satisfaction with the answers received from the presenters.

<sup>1</sup> Course outlines for the courses given this past year are included in Appendix I.

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The postgraduate review course was intended to increase physicians' preparedness for the specialty qualifying exams. During the review, there was an update on selected ob/gyn topics and discussion of new approaches to diagnosis and management.

For the most part, the evaluation of the postgraduate course was positive. Participants in Montego Bay enjoyed the hospital-oriented focus of the course, which gave them more insight as to what happens when patients are referred from the district to the hospital. Doctors in Antigua did not complete the course objecting to its narrow focus, to the scheduled time of the course which interrupted clinic times and stating that family planning is usually handled by family planning associations.

The consultation/case presentation sessions continued to be organized once monthly with sites taking turn to initiate presentation. These sessions were highly interactive with usually four or five doctors present at the larger sites and two or three at the smaller sites. However, support seemed to decline around the time of examinations and the decision was taken to take a summer break in July and August.

<u>Initiating Site</u>	<u>Topic</u>
1. Mona	Extra Uterine Pregnancy
2. Barbados	Endometrial Cancer
3. Antigua	a) The changing situation of Obstetrics and Gynaecology in Antigua b) Prolapse of the Vaginal Wall
4. St. Lucia	Baby at risk
5. Mona	a) A case for diagnosis b) Carcinoma of the Vulva with Carcinoma of the Cervix
6. Dominica	a) Ovarian Cyst appearing after Hysterectomy b) Recurrent Intra-uterine death
7. JHPIEGO/Dr. Foster	Herpes and Gonorrhoea

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The following table shows types and number of participants trained through the program to date. It also shows types and numbers of participants projected for the upcoming period.

**Table I**

	<u>1/1/84-8/31/84</u>		<u>9/1/84-11/30/84</u>		<u>12/1/85-11/30/86</u>
	Projected	Accomplished	Projected	Accomplished	Projected
Physicians	48	61	40*	40	35
Nurses	60	67	110	167	42
Postgraduates	N/A	N/A	25*	36	N/A
Undergraduates	N/A	N/A	50	54	40
Case Presentations/ Consultants	N/A	N/A	10	06	06

\* As Amended.

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Below is the distribution by site of physician and nurse graduates. (Totals in Tables I and II include non-THPIEGO funded trainees.)

**Table II**

	TRAINING SITES							
	Trinidad and Tobago	Barbados	St. Lucia	Antigua	Jamaica Mona	Montego Bay	Dominica	Total Trainees
PHYSICIANS*	22	18	19	7	39	18	14	137
%	16%	13%	14%	5%	29%	13%	10%	100%

\* Includes Postgraduate Specialists

	TRAINING SITES							
	Trinidad and Tobago	Barbados	St. Lucia	Antigua	Jamaica Mona	Montego Bay	Dominica	Total Trainees
NURSES	31	31	33	30	42	34	33	234
%	13%	13%	14%	13%	18%	15%	14%	100%

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In comparing Table III (total numbers of physicians and registered nurses on the islands) with Table II, it is clear that the need for physician training in reproductive health on the smaller islands has been met and headway has been made in nurse training.

**Table III**

<u>Country</u>	<u>Doctors</u>	<u>Reg. Nurses</u>
Jamaica	759*	2,124 (1979)**
Trinidad and Tobago	786	1,840 (1978)
Barbados	201	569 (1979)
St. Lucia	40	195 (1978)
Dominica	10	157 (1980)
St. Kitts/Nevis	16	132 (1976)
Antigua	32	83 (1978)

\* WHO Annals 1983

\*\* Report on Caribbean Regional Communications Service Study, G. C. Labor

Informal surveys by project staff have indicated that limited additional physician training is necessary to reach additional physicians on the larger islands and cover personnel turnover in the smaller islands. One additional course for nurses will cover their demand for this type of course.

Project staff has requested funds for a needs assessment/evaluation visit this year to all sites to determine interest and demand from the ministries of health for these types of reproductive health courses and explore possibilities for other uses of the UWIDITE system for reproductive health training. A JHPIEGO staff member will accompany the project staff member on this visit.

Some possibilities for future training are:

- 1) a biannual contraceptive technology and reproductive health update for health professionals

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- 2) reproductive health courses for nursing students and paramedics (auxiliaries, midwives, etc.) with a primary health care orientation. Other institutions than those currently involved may collaborate.

The nature of further JHPIEGO support to ATRFM for training on the UWIDITE system can be determined after the completion of these site visits.

### III. OBJECTIVES

Objectives for the third program period (12-1-85 to 11-30-86) will be to conduct courses in reproductive health as follows:

1. One course for 35 physicians
2. One course for 42 senior nurses
3. One review course for 40 undergraduates
4. Six consultations/case presentations

A further objective is to conduct a needs assessment/evaluation visit to all sites to determine need for further training on the UWIDITE system in maternal/child and reproductive health.

### IV. DESCRIPTION

#### Physicians Course

Project staff has planned a physicians course similar to the original one, with a specialized ob/gyn focus. The Project Coordinator had discussions with the Department of Family Medicine/Social and Preventive Medicine to seek ways to make the course more suitable to doctors in primary and secondary health care (general practitioners and district medical officers). However, the Department believed that with some minor changes, the course is basically suitable to physicians at that level. Therefore, this year two of the more specialized lectures will be replaced by two lectures with a more general focus (functional uterine bleeding and endometriosis and fibroids). The course will be of ten 2-hour sessions with an extra 1 hour session (21 hours network time).

Project staff expects to recruit approximately five physicians from each of the seven sites, for a total of 35 physician participants.

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### Nurses Course

Project staff has planned another nurses course based on course material already developed. A suggestion arose from evaluations that nurses need general sessions on nursing practice and the nurse/client relationship. Project staff will therefore expand the course from ten to twelve sessions, with the final session being of 1 hour only for feedback and "graduation" exercises (23 hours network time).

Project staff expects to recruit approximately six nurses from each of the seven sites for a total of 42 nurse participants (with one or two nursing tutors per site). Previously, spaces have not been allocated specifically for tutors at the schools of nursing, except at Mona. Project staff will be recruiting specifically from schools of nursing this period to expose nursing professionals with teaching responsibilities to the course contents.

### Undergraduate Review Course

Project staff would like to repeat the undergraduate review course. Topics chosen will be in line with the Ob/Gyn Department's session topics, and similar to last year's course. Based on suggestions made during evaluations, each site will elect a student per topic to present and respond to the topic chosen for that session. The medical students will therefore take a more active role in the presentations with an ob/gyn tutor available for guidance. The course will be of ten 1-hour sessions with the last session being an open seminar for a general questions and answers (10 hours network time).

Project staff expects to register forty undergraduates for the review course from the three campus sites in Mona, Trinidad and Barbados.

### Consultations/Case Presentations

Early interest in the consultation/case presentation has not been sustained, however, there are a number of people at the various sites who have maintained a steady interest. The sessions seem to be particularly valuable to ob/gyn physicians at non-faculty sites who welcomed the opportunity to discuss difficult or rare cases with their colleagues.

Project staff projects six 1-hour sessions (six hours network time).

Revised: 10/21/85

### Postgraduate Review Course

Project staff has decided not to offer another postgraduate review course, because the demand for this specialized ob/gyn course has been met. The regular physicians course, which has a more general orientation, is more appropriate to current needs on the islands.

### Needs Assessment/Evaluation Visit

One project staff member and one JHPIEGO staff member will visit each island site approximately midway into the project period. The purposes of these visits are to meet with personnel from the ministries of health to determine training needs for medical and paramedical personnel in maternal/child and reproductive health and to discuss which might appropriately be addressed through delivery via the UWIDITE system. In addition, project staff, in collaboration with the UWIDITE coordinators, will organize a follow-up workshop for course graduates at each site. During these workshops, project staff and local ministry personnel will gather feedback as to the course's impact on the graduates' activities in the field.

Project staff and JHPIEGO will use information gathered during these site visits to determine the necessity for and nature of future training programs on the UWIDITE system.

V. CRITERIA FOR SELECTION OF PARTICIPANTS

a. Physicians and Nurses Courses

Participants will be nominated by the Ministry of Health, screened by the Ministry of Health contact at each site and selected by the ATRFM unit. This year one or two spaces at each site in the nurses course will be specifically allocated for nursing school faculty.

b. Undergraduate Review Course

Participants are fifth year medical students preparing for final examinations. Space will be available for the first forty students who register for the course.

c. Consultation/Case Presentations

Interested physicians may attend.

VI. SITES OF TRAINING

a. Physicians and Nurses Courses

Courses will be broadcast at seven participating sites: Mona campus and Montego Bay in Jamaica, Antigua, Barbados, St. Lucia, Dominica and Trinidad.

b. Undergraduate Review Course

The course will broadcast at the three campus sites of the University of the West Indies: Mona, Barbados and Trinidad.

c. Consultations/Case Presentations

These will be broadcast to six of the seven participating sites (Montego Bay excluded).

VII. PROJECT PERSONNEL

Dr. Hugh Wynter, director of the ATRFM unit will continue as project director. Ms. Christine Craig will continue to serve as project coordinator.

## VIII. INSTITUTIONAL SUPPORT

The ATRFM Unit will continue to implement this project in collaboration with UWIDITE and designated Ministry of Health officials at each site. The project staff of the ATRFM Unit, under the full-time direction of Professor Wynter, has responsibility for programming the reproductive health courses and case presentations, selecting the presenters, and producing and distributing the educational materials.

UWIDITE will continue to provide time on the narrow-band telconferencing system, assist in forming the program, and distribute the handouts and evaluation forms. Six of the seven teleconferencing sites will be managed by UWIDITE coordinators who will monitor the teleconferencing system, and distribute materials and evaluation forms. Cornwall Hospital health personnel will manage the Montego Bay site.

The Ministry of Health designee in each country will work with the ATRFM project coordinator and help process the selection of the doctors and nurses for the CME courses based on criteria set by UWI. They will also continue to assist, as necessary, the UWIDITE coordinator in the management of the teaching sessions.

The ATRFM Unit will make arrangements for the lectures and for the editing and distribution of the educational materials and process the evaluation forms.

JHPIEGO will provide funds, educational materials and technical assistance. A JHPIEGO staff member will make a site visit to monitor the progress of the project.

## IX. EVALUATION/REPORTS

Project staff will administer pre-and post-tests for the physician, nurse and undergraduate review courses.

Trainees will complete midpoint and end-of-course evaluation on course contents, the teleconferencing system, etc. Project staff has been using this participant feedback to modify and improve the courses and determine future training needs for this type of program.

Revised: 10/21/85

All trainee evaluations for the two past periods' courses are now being evaluated by computer analysis. Results of the analysis will also be used to improve the course.

The Project Director will submit a semi-annual and annual narrative report, and an annual financial report.

Annual Participant Surveys will be required for all physician, nurse and postgraduate trainees.

A needs assessment/evaluation visit will be conducted (see description).

Revised: 10/21/85

X. TIMETABLE

Timetable

Month	1	2	3	4	5	6	7	8	9	10
Physicians Course					X	_____	X			
Nurse Course	X	_____	X							
Undergraduate Review	X	_____	X							
Case Consultation		X		X	X	X		X		X
Needs Assessment/ Evaluation Visit					X					

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XI. BUDGET

In-country Exchange rate: JA 6.55 = U.S. \$1.00

A. Course Instruction

1. Honoraria

a. Physicians Course

10 2-hour sessions + 1 1-hour session (no honorarium)

8 sessions x 2 hours x 90 JA = 1440 JA

2 new sessions x 4 hours x 90 JA = 720 JA

b. Nurse Course

11 2-hour sessions + 1 1-hour session (no honorarium)

10 sessions x 2 hours x 90 JA = 1800 JA

1 new session x 4 hours x 90 JA = 360 JA

c. Undergraduate/Consultations/Case Presentations

8 sessions x 1 hour x 90 JA = 720 JA

d. Site Coordination

(Coordinator and MOH contacts)

x 6 sites

x JA 1,000

6,000 JA

Subtotal

11,040 JA

\$1,685 US

2. Educational Materials and Handouts

a. Doctor course

10 ses. x 40 sets x 35 pages x JA .35 = 4,900 JA

b. Nurse courses

11 ses. x 50 sets x 35 pages x JA .35 = 6,738 JA

c. Undergraduate Review Course

10 ses. x 45 sets x 20 pages x JA .35 = 3,150 JA

Subtotal

14,788 JA

\$2,257 US

Revised: 10/21/85

3. Shipping and Handling

a.	Doctor/Nurse Courses: two (2) courses x JA 500 x 5 sites	5,000 JA	
b.	Undergraduate Courses course: one (1) course x JA 400 x 2 sites	<u>800 JA</u>	
	Subtotal	5,800 JA	\$ 892 US

4. UWIDITE User Fee:

	\$100 US fee per hour: 21 hours (physicians course) + 23 hours (nurses course) + Undergraduate Review Course 10 hours + 6 hours (case presentations) = 60 hours	39,000 JA	\$ 6,000 US
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B. Project Management

1. Personnel (including 15% fringe benefits)

a.	Project Director JA 10,113/mo. x 12 x 8.3% =	10,073 JA	
b.	Project Coordinator JA 2,863/month x 12 x 83% =	28,515 JA	
c.	Secretary JA 1,078/month x 12 x 83% =	<u>10,737 JA</u>	
	Subtotal	49,325 JA	\$ 7,531 US

2. Inter-island Telephone Calls

a.	5 sites x 3/month x 10 months x JA 30		
	Subtotal	4,500 JA	\$ 687 US

4. Site Visit (Project Staff)

	airfare to Barbados, Trinidad, St. Lucia, Dominica and Antigua from Jamaica =	13,349 JA	\$ 2,038 US
	Average per diem \$US 131 + \$20 travel-related costs x 15 days	14,834 JA	\$ 2,265 US
	Subtotal	28,185 JA	\$ 4,303 US

Revised: 10/21/85

	In-Country Subtotal	152,634 JA	\$	23,303 US
	UWI Administrative Rate (15%)	22,895 JA	\$	3,495 US
	In-Country Total	175,529 JA	\$	26,798 US
<u>Direct</u>				
A -	<u>Educational Materials</u>			
	45 Individual Nurse Educational Packages @ \$91.39 each		\$	4,113 US
	38 Individual physician packages @ \$104 each		\$	3,952 US
	45 <u>Health Providers Guide to Contraception</u> @ 16.80 each		\$	756 US
	45 <u>Family Planning: Its Impact on the Health of Women and Children</u> @ \$1.80 each		\$	81 US
	45 <u>An Introduction to Reproductive Physiology and Contraceptive Methods: A Programmed Instruction</u> @ \$4.02 each		\$	181 US
B -	Shipping and handling		\$	<u>3,343 US</u>
	<u>Subtotal Direct</u>		\$	12,426 US
	<u>Annual Participant Survey</u>			
	268 x \$20 =		\$	5,360 US
	<u>Staff Travel</u>			
	airfare to Barbados, Trinidad, St. Lucia, Dominica and Antigua from Jamaica =		\$	2,038 US
	Average per diem \$US 131 + \$20 travel-related costs x 18 days		\$	<u>2,718 US</u>
	Total Staff Travel		\$	4,756 US

Revised: 10/21/85

<b>Total In-Country</b>	<b>US \$26,798</b>
<b>Total Direct</b>	<b>US \$12,426</b>
<b>Grand Total of Project Allotment</b>	<b>US \$39,224</b>
<b>Annual Participant Survey</b>	<b>US \$ 5,360</b>
<b>Staff Travel Total</b>	<b>US \$ 4,756</b>
<b>Grand Total</b>	<b>US \$49,340</b>

XII. BUDGET JUSTIFICATION

The exchange rate, 6.55 JA: \$1 US, is the exchange rate projected for April, 1986, based on the rate of devaluation of the Jamaican Dollar prevailing in September 1985. This projection was developed by the AID mission economist in Jamaica (Telecon September 12, 1985.)

A. Honoraria

Honoraria will be paid to presenters (lecturers) for course preparation and presentation time at the UWI-approved rate of JA \$ 90.00 per hour. For the new sessions for physicians and nurses the presenters will receive an honorarium to cover four hours per teaching session which includes preparation time. For sessions already prepared, presenters will receive for two hours presentation time. As for undergraduate sessions (10) and the case presentations/consultations (6), there will be a total of 16 teaching sessions. One half of these sessions will involve payment to a guest lecturer for one hour of presentation time. Therefore, the budget includes 8 sessions at the rate of JA \$ 90.00 per hour.

Site coordination for the CME courses involves the work of both the UWIDITE coordinator and the MOH contact person. The site coordination cost per site is JA \$1,000 to provide a modest honorarium for the site coordinators. Only six of the seven sites are budgeted because the Montego Bay site is handled by health personnel at the Cornwall Regional Hospital.

B. Educational Materials and Handouts

The cost of the handouts for each course is based on the number of sets required per course, the average number of pages per set, and the cost per sheet of JA \$0.35, (JA \$0.05/sheet plus photocopy costs @ JA \$0.30/copy). Additional sets are included in each course to ensure distribution to all participants --i.e., 90 sets for the CME courses; and 45 sets for the undergraduate course.

C. Shipping and Handling

These costs are based on the ATRFM Unit's experience in shipping educational materials and handouts to the participating sites. The lower per course cost for the undergraduate course (JA \$400) versus the CME courses (JA \$500) is due to fewer sets and/or pages per set.

D. UWIDITE User Fee

Since UWIDITE no longer has outside funding, they have instituted a user fee of \$100 US per hour of network time. The certification for the user fee is appended.

E. Personnel

Since not as many courses will be given this year, project staff expects the workscope to be accomplished in ten months. JHPIEGO will provide salary support for a full-time project coordinator (administrator), and a full-time secretary for the ten months of the project. This amounts to 83% of a FTE salary. The project coordinator and secretary are assigned to the ATRFM Unit under the direction of Professor Hugh Wynter. The secretary's salary reflects a regular five percent increase, including 15 percent fringe benefits. The project coordinator received a salary increase last year, for which certification is appended.

JHPIEGO will provide Professor Wynter an amount equivalent to 10 percent of his UWI salary for ten months (8.3% total) to compensate for additional work on the project beyond his normal UWI hours.

F. Inter-island Telephone Calls

As in the pilot project, the project coordinator will use, when possible, the teleconferencing system to hold planning and coordination meetings with the site coordinators. Nonetheless, experience has demonstrated the need for frequent

telephone calls with key personnel in the participating islands. This year three phone calls per month should be adequate.

G. Site Visit - Project Coordinator

The project coordinator will make one trip to all participating sites and spend two full working days at each site. The airfare is based on current costs and the per diem based on current USAID rates.

H. UWI Administration

Fifteen (15%) administrative costs are broken down into ten (10%) for UWI and five (5%) for the ATRFM Unit to cover administrative overhead, including maintenance, building, subcontracts, etc.

I. JHPIEGO Personnel

A JHPIEGO staff member will accompany project staff on a needs assessment/evaluation visit and spend two full working days at each site as well as additional days in Kingston. The travel and per diem rates are based on current costs and USAID rates.

J. Educational Materials

The 38 individual physician educational packages are for the 35 physicians programmed, with three extra packages for extra participants.

The 45 individual nurse educational packages are for the 42 nurses programmed, and up to three additional nurses who might participate in the course.

The 45 copies of The Health Providers Guide to Contraception, 45 copies of Family Planning: Its Impact in the Health of Women and Children and 45 copies of An Introduction to Reproductive Physiology and Contraceptive Methods: A Programmed Instruction are for distribution to the undergraduate participants, with five extra copies of each for distribution to extra participants.

Course A.2 PhysiciansAppendix 1

(Thursday 2:30 - 4:30 Ja. time  
3:30 - 5:30 EC time)

Date - 1984	Component	Presenter	From Sites
1. Sept. 27	Human Sexuality and Sexual Dysfunction	Dr. L. Matadial	Mona
2. Oct. 4	An Approach to Sub-fertility	Professor Wynter/Dr. James Boyce	Mona/Barbados
3. Oct. 11	Update on Fertility Control	Dr. J. Boyce	Barbados
	a) Oral Contraceptives		
	b) The Injectables		
4. Oct. 18	c) Natural Methods of Family Planning	Dr. A. Mullings	Mona
	d) IUCD and Barrier Methods		
	e) New Directions		
5. Oct. 25	Voluntary Sterilization	Professor Wynter/Dr.B.Sorhaindo	Mona/Dominica
6. Nov. 1	Care and Management of High Risk Pregnancy	Dr. Kulkarni	Mona
7. Nov. 8	Gynaecological Cancer Screening and follow-up	Dr. J. Hall	Mona
8. Nov. 15	Sexually Transmitted Diseases	Dr. G. Meggs	Mona
9. Nov. 22	Open session - Common Clinical Problems	Dr. J. Boyce	Barbados

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Course B.2 Senior Nurses

Tuesday 12:30 - 2:30 Ja. time

1:30 - 3:40 EC time

Date 1985	Component	Presenter	From Sites
1. Nov. 6	Human Sexuality	Ms. J. Tulloch-Reid	Mona
2. Nov. 13	Counselling	Dr. T. Allen	Mona
3. Nov. 20	Contraceptive Technology a) Oral Contraceptives b) The Injectables	Dr. L. Matadial	Mona
4. Nov. 27	c) Natural Methods of Family Planning d) IUCD and Barrier Methods e) New Directions	Dr. A. Mullings	Mona
5. Dec. 4	Voluntary Sterilization	Professor Wynter/Dr. B. Sorhaindo	Mona/Dominica
6. Dec. 11	Clinic Management	Mrs. I. Barrett	Mona
7. Dec. 18	a) Diagnosis, Management and Referral of 1st Trimester Wastage b) Open Session	Dr. A. Mullings	Mona
8. Jan. 8	Pregnancy Testing, Pre and Post Natal Care High Risk Pregnancy	Dr. A. St. Rose Dr. L. Matadial	St. Lucia Mona
9. Jan. 15	Recognition, Management and Referral of Sexually Transmitted Diseases	Dr. G. Meggs	Mona
10. Jan. 22	Gynaecological Cancer Screening and Follow-up	Dr. J. Hall	Mona

UWIDITE COURSES IN REPRODUCTIVE HEALTH

Undergraduate Review Sessions

Course C.I

Time: Thursday 1:30 - 2:30 p.m. (Ja)  
2:30 - 3:30 p.m. (EC)

<u>Date</u>	<u>Topics</u>	<u>Presenter</u>	<u>From Site</u>
November 15, 1984	1. Colposcopy and Laparoscopy	Dr. Rotchell and Dr. Matadial	Barbados/Mona
November 22, 1984	2. Ultrasonography	Dr. A. Mullings	Mona
November 29, 1984	3. Cystoscopy	Dr. Neil Garbutt	Mona
	<u>Bleeding Disorders</u>		"
December 6, 1984	4. Upper Genital Tract	Dr. J. Boyce	Barbados
December 13, 1984	5. Lower Genital Tract	Professor H. Wynter	Mona
	<u>Malignancies</u>		
December 20, 1984	6. Lower Genital Tract	Dr. J. Hall	Mona
January 3, 1985	7. Upper Genital Tract	Professor Roopnarinesingh	Trinidad
January 10, 1985	8. Examination/Disorders of the Breast	Mr. D. Raje	Mona
January 17, 1985	9. Contraceptive Choice	Dr. L. Matadial	Mona
January 24, 1985	10. Open Seminar - Question/answer	Dr. Y. Rotchell	Barbados