

AAFP GLOBAL HEALTH SUMMIT

Impacting Global Health through Family Medicine

September 13-15, 2018. Jacksonville, Florida.

Launching a Cervical Cancer Screening and Treatment **Program in Rural Haiti through a Collaborative Two Week Training and Mass Screening Event**

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Learning Objectives

- Identify the successes and challenges of launching a cervical cancer screening program in a rural hospital in Haiti
- Appreciate how involving residents and students in a global health initiative contributes to its success
- Effectively involve residents and students in a global health initiative in order to enhance their educational experience

Outline

Background

The Project

Residents' Experience with The Project

Global Health Education in Residency



Background

Cervical Cancer Incidence in the World, 2012



Data accessed on 15 Nov 2015.

Rates per 100,000 women per year.

For Sudan, South Sudan: Estimate for Sudan and South Sudan

Data sources: Ferlay J, Soerjomataram I, Ervik M, Dikshit R, Eser S, Mathers C, Rebelo M, Parkin DM, Forman D, Bray F. GLOBOCAN 2012 v1.2, Cancer Incidence and Mor Worldwide: IARC CancerBase No. 11 [Internet]. Lyon, France: International Agency for Research on Cancer; 2013. Available from: http://globocan.iarc.fr.

Cervical Cancer in Haiti

Ranking of cervical cancer (all years): 1st for incidence; 1st for mortality

Annual number of new cases/deaths: Incidence: 1048 Mortality: 575



Comprehensive **Cervical Cancer Control** A guide to essential practice

Second edition





Ch

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Prevalence of HPV infection, pre-cancer and cancer over the lifespan



Methods of Cervical Cancer Screening

	VIA Visual Inspection with Acetic Acid	Pap Smear Cytology	
# of visits needed	1 visit	Multiple visits	
Cost	Low	Moderate	High, Iower
Feasibility in a low resource setting	Very feasible	Not very feasible	Poss in

HPV Testing

-2 visits

but perhaps r in the future

sibly feasible the future

Table 1. Screening Test Sensitivity and Specificity in Detecting Cervical Disease (CIN 2+ or Cancer)

Test	Sensitivity	S	
Pap smear	38-83% ¹ 47-62% ²	e	
VIA	80% ³ 65–90% ²	6	
HPV testing Clinician-collected Self-collected	93-98% ⁴ 80-86% ⁴		

Source: WHO 20061; FIGO 20092; Sauvaget et al. 20113; ACCP 20114.

pecificity	
> 90% ¹ 50–95% ²	
92% ³ 54–98% ²	
85% ⁴ 85% ⁴	

The Project



H3Missions, Inc. – Help for Hurting Humanity: A Non Profit Company

h3missions.org

Institutional Collaboration















HÔPITAL ALBERT SCHWEITZER HAIT

Rural hospital in Deschapelles, Haiti 90 miles north of Port-au-Prince 131 beds 350,000 people served Multiple specialties available Strong Community Health Program Established in 1956 by Larry Mellon Long term history of international partnerships





Project Timeline



Key Project Design Elements

Purpose: Launching a sustainable cervical cancer screening program at HAS

Duration: 1 year project (May 2018 - April 2019)

Components: Training local physicians and nurses Mass screening (900 women)

Funding: ~\$100K grant from Rotary International

- Travel costs of 20 US-based volunteer professionals
 - -Two-week initial workshop
 - -Two short trips at 6 and 12 months
- Equipment and supplies

People

US Team

Role	Week 1	Week 2	Qualifications	
Team Leader	+	+		
Logistics	+	+		
Media/PR		+		
Logistics/Lab	+	+		
Lead Trainer	+		Nurse Practitioner	
Trainer 1	+	+	MD - FM, UCR	
Trainer 1	+		MD - OB/GYN, UCR	
Trainer 1		+	MD - OB/GYN	
Trainer 1	+		Nurse Practitioner	
Trainer 2	+		Nurse	
Trainer 2	+	+	MD - FM resident, UCR	
Trainer 2	+		MD - OBGYN resident, UCR	
Trainer 2	+	+	MD - FM resident, UCR	
Trainer 2	+	+	MD - FM resident, LLU	
Pathol	+	+	MD	
Cytol	+	+	Cytologist	
Cytol	+	+	Cytologist	
Cytol	+	+	Cytologist	
Data/PtEd	+	+	MS4	
PatEd	+	+	Nurse	
	18	15		



Haiti Team

HAS		H3M
Hospital Director	(1)	
Program Coordinator	(1)	Logistics
		Clinic management
Hospital staff (registration)	1	Registration/Data
Community Health Director	1	Translators
Trainees:		
HAS gynecologists	3	
HAS physicians	2	
HAS midwives	3	
HAS nurses	2	





Screening and Treatment Methods

Screen with VIA and treat with cryotherapy, or LEEP when not eligible for cryotherapy

VIA

Cervical Cancer Screening Algorithm for Hôpital Albert Schweitzer

Positive Negative Rescreen every Methods: 3-5 years Cytology / Pap smear Visual Inspection with Acetic Acid (VIA) Not eligible for Eligible for cryotherapy, Cryotherapy cryotherapy, treat treat with cryotherapy with LEEP Loop Electrosurgical Excision Procedure (LEEP) Colposcopy Post-treatment follow-up at 1 year



Papanicolaou (PAP) Smear





Visual Inspection with Acetic Acid (VIA)

Figure 5.1: VIA results recorded on labelled drawing



- Outline of squamocolumnar junction (SCJ)
- White epithelium
- Actual cervical os













Streak-like acetowhitening is not significant



A line-like acetowhitening appearing at the brim of endocervix is usually not significant



Dot-like pale areas in the endocervix; they are due to grape-like columnar epithelium staining with acetic acid, which is normal



Thick, well-defined acetowhite areas, appearing immediately adjacent to the SCJ, jutting into both endocervix and ectocervix; they are significant

Cryotherapy

Table PS5.10.1: Eligibility and exclusion criteria for cryotherapy

Figure 5.4: Position of cryoprobe on the cervix and ice forming

Eligibility criteria (all must be met)	Exclusion criteria (if any are met)
 Positive screening test for cervical pre-cancer Lesion small enough to be covered by the cryoprobe Lesion and all edges fully visible with no extension into the endocervix or onto the vaginal wall 	 Evidence or suspicion of invasive disease or glandular dysplasia (pre-cancer) Lesion extends beyond the cryoprobe edge Pregnancy Pelvic inflammatory disease (until treated) Active menstruation



LEISEGANG[®] LM-900 Cryosurgery System





Colposcopy



Typical Mayo tray set-up for colposcopy. From left to right: cotton balls, Monsel's solution, saline, vinegar, Lougal's iodine, cotton-tipped applicators, rectal swabs (Texas Q-tips), Ring forceps, vaginal speculum, biopsy forceps, ECC curette, endocervical speculum. Additional possible items not shown include benzocaine solution, side-wall retractors, and cervix brush

View of cervix Beam of light Colposcope

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Vaginal speculum



Mobile Colposcopy







X Mary



Patient ID: 2017-03-14 - Patient #2



Patient name: Esther Arthur Patient seen on: 14 Mar 2017 Location: Tushiya St 1-5, Tel Aviv-Yafo, Israel Provider: Curtis Peterson Images: 1, Videos: 0, Notes: 0

Patient ID: 2017-03-14 - Patient #53



Patient name: Not entered Patient seen on: 14 Mar 2017 Location: Tushiya St 5, Tel Aviv-Yafo, Israel Provider: Ariel Beery Images: 1, Videos: 1, Notes: 2



LEEP



Figure PS5.11.1: Different types and sizes of electrodes

b

С

3

ball electrode (a)

- (b) square loop electrode
- (c) semicircular loop electrode



Figure 5: Loop electrode being positioned over area to be excised (top) and initial insertion of probe into cervical tissue (bottom)¹¹

Figure 6: Loop electrode being passed through cervical stroma under the transformation zone (top) resulting in an excisional biopsy (bottom)¹²











Table 1. Outpatient treatment options for preinvasive cervical lesions.

Method qualities	Cryotherapy	LEEP	
Effectiveness	80-90%	90-95%	
Side-effects	Watery discharge, Bleeding infection risk		
Anesthesia required	No	Yes	
Tissue sample obtained	No	Yes	
Power required	No	Yes	
Cost of basic	Relatively low	Relatively high	
equipment/supplies	(US\$	(US\$	
	1 000-3 000)	4 000-6 000)	

Training

Learning Objectives

At the end of the training program, participants will be able to:

- Explain the **epidemiology** of cervical cancer
- Describe the normal and pathologic **anatomy** of the cervix
- Identify and describe abnormal cervical lesions through VIA
- Explain the treatment options for pre-cancerous cervical lesions
- Describe and **perform the key steps** of the:
 - -speculum examination
 - -preparation of a pap smear
 - -examination of a cervix by VIA
 - -cryotherapy of eligible precancerous cervical lesions
 - colposcopic examination including biopsies [OBGYN trainees only]
 - -LEEP [OBGYN trainees only]

Didactic Component

- Classroom-based, in hospital library
- First week only, from 8AM to 12PM
- Mandatory for all participants
- Primary language: Creole; also French and English
- Lectures, demonstrations, group exercises, reading and self-study







Didactic Component Schedule

	Jour 1	Jour 2	Jour 3	Jour 4	Jour 5
8:00 -9:00	Introduction: Nyron & Marc Objectifs: Louise	Pre-test: Trina Revue Jour 1, Q&A: Louise & team Épidémiologie: Von	Revue Jour 2, Q&A: Louise & team	Revue Jour 3, Q&A: Louise & team	Revoir Jour 4, Q&A: Louise & team
9:00 - 10:00	Épidémiologie: Louise Anatomie et examen du bassin: Angie	Anatomie et pathologie: Trina	Jeu de cartes flash de VIA: Louise & Anthony	Jeu de cartes flash de VIA: Mai-Linh	Jeu de cartes flash de VIA: Erin
10:00 - 11:00	Méthodes de dépistage: Louise & Maureen	PAP Technique: Suzy	Cryothérapie: Louise	Conseils et education: Carolyn	La collecte et la gestion des données: Carolyn & Anthony
11:00 - 12:00	Conseil aux patients: Louise Décontamination: Louise Formulaire de depistage: Marc	VIA Technique: Louise HPV Technique: Trina	LEEP: Kimberly	Les infections sexuellement transmissibles : Mai-Linh	Prévention des infections: Erin Post-test: Trina Évaluation finale du programme: Carolyn

Visual Inspection of the Cervix

FLASH CARD SET

innovating to save lives








- Question 1 Is the cervix suspicious for cancer? No.
- Question 2 The SCJ is identified above.
- Question 3 VIA-negative.

Is the cervix VIA-positive or VIA-negative?

If the squamocolumnar junction (SCJ) can be seen on the cervix, point to it.







- **Question 1** Is the cervix suspicious for cancer? No.
- Question 2 The SCJ is identified above.
- Question 3 VIA-negative.

Is the cervix VIA-positive or VIA-negative?

If the squamocolumnar junction (SCJ) can be seen on the cervix, point to it.







- Question 1 No.
- Question 2 The SCJ is identified above.
- Question 3 VIA-positive.
- Question 4 cervix.
- **Question 5** cryotherapy?

Is the cervix suspicious for cancer?

If the squamocolumnar junction (SCJ) can be seen on the cervix, point to it.

Is the cervix VIA-positive or VIA-negative?

Point to the acetowhite lesion(s) on the

The lesions are identified above.

Is this patient a good candidate for

Yes. (The provider needs to ensure that the cryoprobe completely covers all lesions.)







Question 1	Is the cervix so Yes.
Question 2	If the squamod can be seen of The SCJ is not
Question 3	Is the cervix VI VIA-positive.
Question 4	Point to the ac

- cervix. The whole cervix is affected.
- Question 5 cryotherapy?

cancer.

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uspicious for cancer?

columnar junction (SCJ) n the cervix, point to it. visible.

IA-positive or VIA-negative?

cetowhite lesion(s) on the

Is this patient a good candidate for

No, because the cervix is suspicious for

Practical Component





Gradual progression from observation to supervised then independent practice:

- Days 1 to 3: 3 sessions of 4 hours in PM 6 patients per table (36 patients per session)
- Days 4 to 9: 10 sessions of 4 hours 12 patients per table (72 patients per session)

PARAMETERS	BASIC		Total		
		А	В	С	
Number of days of work	1	3	2	4	9
Work hours per day	4	4	4	8	
Number of exam tables/stations	1	3	6	6	
Pelvic, VIA, Pap smear	20	20	20	20	
+breast, others	0	0	0	0	
Duration of exam (minutes)	20	20	20	20	
% screened women to treat (cryo or LEEP)	5%	5%	5%	5%	
RESULTS					
Number of women screened	12	108	144	576	828
Number of women treated	0.6	5	7	29	41

1. Number of patients screened according to selected parameters

	A: first three days of week 1
Models:	B: last two days of week 1
	C: first four days of week 2

2. Number of patients needed to achieve competency in VIA/pap, cryo and Colpo/LEEP by type of trair

		Number of patients needed per			Total number of patients ne			
TRAINEES	Number	VIA/Pap	Cryo	Colpo/LEEP	Screen	Cryo	Colpo/LEEP	
GYN	3	12	5	5 5	36	15	15	
Physician	2	75			150	0	0	
Nurse mid-wife	3	50	10)	150	30	0	
Nurse practitioner	2	75			150	0	0	
Total	10				486	45	15	









WEEK 1

WEEK 1		Monday			Tuesday			Wednesda	у	Thursday		Friday			
AM															
Didactics															
Lead trainer		Louise			Louise			Louise			Louise			Louise	
Trainees		10			10			10			10			10	
Trainer 1	Angie			Trina			Anthony			Mai-Linh			Anthony	Carolyn	
Trainer 2	Von	Marc		Von	Marc		Von	Marc	Kimberly	Von	Marc		Von	Erin	
Employee Scree	ning														
Room #	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3
Employees	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Trainer 1	Anthony	Mai-Linh	Trina	Angie	Anthony	Mai-Linh	Trina	Mai-Linh	Angie	Angie	Anthony	Trina	Angie	Trina	Mai-Linh
Trainer 2		Kimberly		К	imberly/Er	in		Erin			Erin			Kimberly	
Off / Unassigne	Erin														
PM															
Patients Screeni	ng		-	1		-					-				
Room #	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3
Patients	12	12	12	12	12	12	12	12	12	24	24	24	24	24	24
Trainees	3	3	4	3	2	3	3	3	3	2	2	2	2	2	3
OBGYN	Saintvil	Petit-Frere	Jean-Louis	Jean-Louis		Petit-Frere	Petit-Frere	Saintvil						Petit-Frer	е
Sage-Femmes	Janise	Elmise	Garlinne	Janise	Elmise	Garlinne	Elmise	Garlinne	Janise	Janise		Elmise	Garlinne	Janise	Elmise
Infirmiere		Gracieuse	Pascale	Gracieuse		Pascale	Gracieuse	2	Pascale		Pascale	Gracieuse			Pascale
MD	Isidore		Benoit		Isidore			Isidore	Benoit	Isidore	Benoit		Benoit		Isidore
Trainers															
Trainer 1	Angie	Trina	Mai-Linh	Anthony	Trina	Angie	Angie	Mai-Linh	Anthony	Mai-Linh	Anthony	Trina	Mai-Linh	Mai-Linh	Angie
Trainer 2	Kimberly	Erin/Marc	Louise	Kimberly	Erin	Louise	Louise	Erin	Marc	Louise	Erin	Marc	Louise	Erin	Marc
Support				Sair	nt-Ville, Be	enoit		Jean-Louis	5		Garlinne			Gracieuse	9
(decontaminati		Anthony			Mai-Linh			Trina			Angie			Anthony	
on, education,		Markenley	/		Markenley	/	Mai	rkenley/Ca	rolyn	Mar	kenley/Ca	rolyn	Ma	rkenley/Ca	rolyn
data, mobile		Feda		HA	S Educ/Fr	eda	HAS Ec	duc/Freda/	Carolyn	HAS Ec	luc/Freda/	'Carolyn	HAS Ec	duc/Freda/	'Carolyn
Colpo/LEEP		-			-			-		Kimberly	, Saintvil/F	Petit-Frere	Kimberly	, Jean-Lou	is/Saintvil
Supervision/cryo		-			Marc			Kimberly		ι	ouise/Ma	rc		_ouise/Ma	rc
Off / Unassigne										Jean-Loui	s				

WEEK 2

WEEK 2		Monday			Tuesday			Wednesday		Thursday		Friday			
AM															
Patients Screening															
Room #	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	-	-
Patients	24	24	24	24	24	24	24	24	24	24	24	24	-	-	-
Trainees	2	2	3	2	2	2	2	2	2	2	2	2			
OBGYN			Jean-Louis												
Sage-Femmes	Jeanise	Elmise		Garlinne		Elmise	Jeanise	Elmise		Garlinne	Elmise				
Infirmiere		Gracieuse	Pascale		Pascale	Gracieuse		Gracieuse	Pascale		Gracieuse	Pascale			
MD	Isidore		Benoit	Benoit	Isidore		Isidore		Benoit	Isidore		Benoit		Final Review	,
Trainers														Action Plans	
Trainer 1	Angie	Anthony	Mai-Linh	Angie	Anthony	Mai-Linh	Marc	Anthony	Jean-Louis	Angie	Petit-Frere	Mai-Linh		Certification	
Support	Gu	arline, Petit-F	rere		Saintvil, Jeani	se		Petit-Frere			Jeanise				
(decontamination,															
education, data,	М	arkenley/Carc	olyn	М	larkenley/Carc	olyn	N	larkenley/Caro	olyn	Μ	arkenley/Caro	olyn			
mobile colpo)	HAS	Educ/Freda/C	arolyn	HAS	Educ/Freda/C	Carolyn	HAS	Educ/Freda/C	Carolyn	HAS Educ/Freda/Carolyn					
Colpo/LEEP		-			-			-		Ginger, Jean-Louis/Sainvil			Ginger, Petit-Frere/jean-Louis		
Supervision/cryo		Marc/Ginger	ſ		Ginger			Ginger/Sainv	ʻil	Marc		-			
Off / Unassigned		Saintvil		Marc, J	lean-Louis, Pe	tit-Frere	Angi	e, Mai-Linh, G	arlinne		Anthony				
PM															
Patients Screening					_		_				_	_			
Room #	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3			
Patients	24	24	24	24	24	24	24	24	24	24	24	24			
Trainees	2	3	3	2	2	2	2	2	2	2	2	3			
OBGYN		Sainvil	Petit-Frere			Saintvil									
Sage-Femmes	Elmise	Jeanise	Garlinne	Jeanise	Garlinne	Elmise	Jeanise	Elmise	Garlinne	Jeanise	Elmise	Garlinne			
Infirmiere		Gracieuse		Pascale	Gracieuse		Pascale				Gracieuse	Pascale			
MD	Benoit		Isidore					Isidore	Benoit	Isidore		Benoit			
Trainers														Denarture	
Trainer 1	Angie	Anthony	Mai-Linh	Angie	Anthony	Mai-Linh	Angie	Anthony	Mai-Linh	Angie	Anthony	Mai-Linh		Departure	
Support	Je	an-Louis, Paso	cale		Benoit, Isido	r		Gracieuse			Isidor				
(decontamination,															
education, data,	M	arkenley/Carc	olyn	M	larkenley/Carc	olyn	N	larkenley/Caro	olyn	M	arkenley/Caro	olyn			
mobile colpo)	HAS	Educ/Freda/C	arolyn	HAS	Educ/Freda/C	arolyn	HAS	Educ/Freda/C	Carolyn	HAS	HAS Educ/Freda/Carolyn				
Colpo/LEEP		-		Ginger,	Petit Frere/ J	ean Louis	Ginge	er, Sainvil/Pet	it-Frere		-				
Supervision/cryo		Marc/Ginger	ſ		Marc			Marc/Jean-Lo	uis		Ginger/Saintv	vil			
Off / Unassigned										Marc,	Petit-Frere, Je	ean-Louis			



Trainee Evaluation

Pre/Post Test for Didactic Component Series of 20 questions Pre-test administered on Day 1 Post-test administered on Day 5

Competency Observation Checklist for Practical Component Developed based on training manuals from other organizations Administered on Day 5 and Day 9

Certificate of completion was awarded at the end of the training



Patient Group Counseling

- Essential for women to understand importance of cervical cancer screening & dispels myths
- Script with key message created in Creole, French and English; no printed pamphlets due to low literacy
- Verbally explained to women in waiting room by Nurse Educator in Creole
- Helps reduce clinician time spent on individual counseling during mass screening event





Registration & Waiting Room





Results

Women Screened

Number of Women Screened (by method)						
PAP	822					
VIA	775					
All women (VIA or PAP)	988					

Women Screened by Age

Average age: 42.4 Age range: 20 to 60 Post-menopausal: 20%



Women Screened by Date



Abnormal Screening Tests

	No. Positive	No. Negative	Total
PAP	44	780	824
VIA	46	729	775



Number of procedures



Next Steps

Screening and Treatment Methods by Health Care System Level



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Training

Monitoring

Evaluation

Cervical Cancer Screening Services at HAS

Monthly clinic:

2 days every third week of the month Up to 150 women Using VIA + Pap Pap smears sent to US Limited use of local pathology

Screening team:

- 1 gynecologist & 4 providers
- 2 registration/data management staff
- 2 health aides
- 1 data entry person

Monitoring & Evaluation

Information system

Revision of patient intake form Consistent use and management of forms Data entry and analyses by H3M/UCR first, then gradual take-over by HAS Mid-term and final evaluation

Follow-up visit at 6 and 12 months Small team Observation of HAS 2-day screening clinic Review quality of services **Review data collection** Discuss potential follow-up projects

Program Expansion

- Routine use of mobile colposcope and EVA system
- Introduction of HPV Testing
- Comparative evaluation of VIA/PAP/HPV at HAS

- Management of cervical cancer cases at HAS
- Expansion to HAS Community **Health Program**
 - 4 surrounding community health centers
 - Training Director and 5
 - additional nurses
- Introduction of HPV Vaccine

Residents' Experience with The Project

US Medical Education Team

Faculty: Family Medicine: 1 UCR OB-GYN: 1 UCR
Residents Family Medicine: 2 PGY-1 UCR 1 PGY-3 LLU
OB-GYN: 1 PGY-1 UCR
Medical Students: 1 MS-4 LLU



Role of Medical Learners

- Involved in all aspects of project
 - -Pre-trip
 - -During trip
 - -Post-trip





Preparation for the Trip

- Formalizing didactic curriculum*
 - -learning objectives
 - -daily schedule
 - -training materials (folders, USB) drives, references)
- Translating documents from English to French

- Developing :
 - -Pre/post knowledge tests
 - -Clinical skills observation checklists
 - -Clinical protocols & practice guidelines
 - -Patient educational materials
 - -Patient clinical intake forms and other data collection tools
- Managing equipment and supplies inventory

*Note: curriculum content based on materials used by US-based women's health nurse practitioners and team members who have been training physicians and nurses in VIA & cryotherapy near the southern Haiti-Dominican Republic border for several years.

Clinical Skills Assessment Form

VIA Skills Assessment

Rate the performance of each individual per case observed.

Scores:

1. Needs improvement: Step or task not performed correctly, out of sequence or omitted

2. Competently performed: Tasks performed correctly in proper sequence but participant does not progress from step to step efficiently

3. Proficiently Performed: Steps performed efficiently and in the proper sequence

VIA		
Tasks	Cases	
Initial Interview		
1. Greet the woman respectfully and kindness		
2. Establish purpose of the visit and answer questions. Assures patient privacy.		
3. Provide general information about preventing cancer by early detection		
4. Explain expectations of clinic visit		
 Explain how pelvic exams are done 		
How VIA can prevent cervical caner		
Counseling		
1. Obtain patient information		
 Reproductive health history: first sexual contact? STD's 		
2. Ability to provide additional information		
 Explain cervical cancer and relationship to HPV 		
Discuss risk factors		
 Significance of VIA and possible findings 		
Treatment options based on VIA results		
3. Asks patient about their attitudes and concerns		
4. Assures that patient understands procedure and obtain consent		
Procedure		
1. Prepares efficiently for procedure		
 Instruments and supplies are available 		
 Light source is ready to use 		

Cryotherapy Skills Assessment

Rate the performance of each individual per case observed. Scores:

- 1. Needs improvement: Step or task not performed correctly, out of sequence or omitted
- 2. Competently performed: Tasks performed correctly in proper sequence but participant does not progress from step to step efficiently
- 3. Proficiently Performed: Steps performed efficiently and in the proper sequence

Cryotherapy

Tasks

Initial Interview

1. Greet the woman respectfully and kindness

2. Establish purpose of the visit and answer questions. Assures patient p

3. Provide general information about preventing cancer by early detection

4. Explain expectations of clinic visit

- Explain how pelvic exams are done
- Crytotherapy explained, risks, benefits and alternatives

Counseling (If not completed already

- 1. Obtain patient information
- Reproductive health history: first sexual contact? STD's
- 2. Ability to provide additional information
 - Explain cervical cancer and relationship to HPV
 - Discuss risk factors
 - Significance of cryotherapy
- 3. Asks patient about their attitudes and concerns

4. Assures that patient understands procedure and obtain consent

Procedure

1. Prepares efficiently for procedure

- Instruments and supplies are available
- Light source is ready to use
- Ensure patient is ready: undressed from waist, proper positionin

	Cases							
rivacy.								
on								
7)								
ng on table, proper								

Patient Flow Protocol

Registration and consent

- Upon arrival, patient is directed to the registration table to presentherpre-registration card
- If scheduled today, patient is invited to return to waiting area; if patient cannot be seen, she is rescheduled or explained that she is not eligible for this service
- 3. Eligible patient is called by a registration staff by her name of registration number
- 4. Registration staff fill in demographic section of patient form
- Counselor HEALTH STAFF explains procedure to patient and obtains signed informed consent
- 6. Patient returns to waiting area and participate in group education activities
- 7. Clinician or aids called patient when ready to proceed with the examination

Clinical examination

- 1. UNDRESSED
- 2. Patient is introduced in the examination room by one of the clinicians or aids
- Clinician welcomes patient, review demographics and check informed consent, and complete clinical history information
- 4. Clinician or aids installs patient on examination table, ensuring comfort and privacy
- 5. Clinician places speculum and examine cervix for any abnormal finding
- 6. Clinician take cytology specimen and prepare pap smear
- 7. Clinician apply acetic acid and examine cervix for any abnormal finding

Cervical Cancer Prevention Patient Educational Materials

Overview:

This guide will provide information for group education as well as individual counseling. The goals of these educational exercises will be to educate our patients on cervical cancer and its risk factors. We also hope to explain the importance of cervical cancer screening. Finally, we want to prepare patients for the experience of cervical cancer screening, the possible results and potential treatment. This patient education is critical in order to ensure the patient's comfort throughout the process, make sure women have accurate information about screening and treatment and to help the patient make an informed decision about screening.

What are the Characteristics of a Good Counselor?

Remember: Counseling is all about ensuring patient comfort, providing adequate and correct information and help patients make informed decisions.

Group Training:

This will be an interactive experience with patient groups. Props (i.e. speculum, acetic acid, swabs, etc) may be available for demonstration.

Start by asking women if they have heard of cervical cancer and what they know about cervical cancer. Also ask women what may increase the risk of cervical cancer.

What is Cervical Cancer?

The cervix is located in the lower part of the womb and is connected to the birth canal (vagina). Cervical cancer can develop in the cervix. Cervical cancer occurs when normal cells in the cervix become cancer cells. These cancer cells are usually caused by a cancer causing infection called HPV (Human Papilloma Virus). Cervical cancer can be prevented with screening.

Who is at Risk?

Women who are at higher risk for cervical cancer include those women: whose sexual debut occurred early (before the age of 20), who have had multiple sexual partners (greater than 6), who have a history of sexually transmitted infections, who have previously had an abnormal screening, who smoke, who have some form of immunosuppression (i.e. HIV/AIDS, malnutrition).

Patient Clinical Intake Forms

HÔPITAL ALBERT SCHWEITZER DESCHAPELLE, HAÏTI PROGRAMME DE DÉPISTAGE DU CANCER DU COL UTERIN

DEPISTAGE ET TRAITEN	п			
Nom	Brenam	Date de naissance	Age	HAS#:
Date de la <u>visite</u>	Lieu de la <u>clinique</u>			
C D A V	I have for a second sec	Antipartition	l	Méren
GPAV	Hysterestomie	Amenarrinee P	endant> 12 mois	Menopause
EDLMB	Encointe	Décis constants	N Contraction	Máthada
PDLIVIP	O N	O N	O N	00500985
Saignement anormal		Postcoital	Entre les règles	Post-ménonause
O N	Si gyj;	O N	O N	O N
Antecedent		Frottis Cervical/Pap	IVAA	HPV
depsitagedu cancer		Date:	Date:	Date:
du col	Si qui:	Résultats:	Résultats:	Résultats:
O N				
Antecedent test VIH		Date:	Lieu de la clinique	
O N	21 880:	Résultats:		
Frottiscervical O N	Si gyj:	Cervical: O N	Endocervical: O N	Pap#
Test HPVO N	Si pui:	Type de test:		HPV#
IVAAO N				
Le <u>col</u> de l'utérus est-i	suspect pour le cance	r? ON		
L'ensemble de la jonct	ion squamme-cylindri	que JSCest-elle visible?		\
ON				
Si oui, dessinez la JS	C sur le diagramme			
Le col de l'uterus est-i	IVAA-gositit: O N			
Si qui, dessinez la les	ion acidophile sur le di	agramme		
C			· ۱	
Cette patiente est-elle	candidate pour la cry	punerapier O N		
Réalisée: O N	Constant			nía: O N
Commontaire	Consentententalen	e o n instructio	ris post-operatori es dorr	Nee- U N
Southensense	Dénistare normal: 9	uivi nour de nistage de l	routing dans 5 ans	
Disposition	Dépistage normal:	Consthé mais terminée	- Suivi dans 1 an	
Disposition	Depistance augulate		- 39(0(.99(13.1 a))	Pof #
Signature	Rebistageaulounary	ererence vers.		Nel. #
Signature.				
Date			Nom en capitales:	
PATHOLOGIE				
	Cytologue:		Institution	Date
Résultats frottis	Satisfaisant: O N	Commentaire:		
cervical / Pap	Si satisfaisant:Aucur	ne lésion intra-épithélia	le ou malien: O N	
	Si Non, encerder le	résultat:: ASC-US ASC-	H LSIL HSIL SCC AGC A	AIS AC Autre:
Résultats test HPV	Positif O N	Institution		Date
CARACALLER .	A MARKED V			

RÉFÉRENCE POUR LA COLPOSCOPIE / LEEP / CRYOTHERAPIE

Prenom:		Date de naissance:
Date de la <u>visite</u>	Emplacement de la <u>clinique</u>	
GPAL	FDLMP:	Ménopause:Q N
Indications de colposcopie		
Pap anormal:	Rendez-vous amoureux:	Résultats:
Abnormal VIA:	Rendez-vous amoureux:	Résultats:
Formulaire de consentement signé par le patient / tuteur? O N		
Résultats de la colposcopie Aspect brut: Normal <u>Anormal</u> Si gnarmal, expliquez:		
Spiceou Bayoneticchinghabe. Venon Ve		
Veuillez dessiner une jonction pavimento-culindrique (SCI) et une zone de transformation (TZ) sur le diagramme et marguer toutes les constatations pertinentes comme suit:		
Sostawbute (AW) Navores adarmaux (AV)Condylame (CD) Erosion (ER) Inflammation (IN) Leucoplasie (LE) Masse (MA) Mosaïciame (MO) Kyste de Naboth (NC) Boboe (PO) Booctation (PU) Métaplasie squameure (SM)		
Biopsies	Dessinez ci: dessus avec "x"	ECC Y N
Empreinte colposcopique:	Ordinaire Faible	teneur Haut gradeEnv
Cryothérapie		
Consentement signé: Y N Cryothérapie terminée: Y N		
Commentaire		
Procédure d'excision électrique en boucle (LEEP)		
Bloc intracervical:	2% de Xylo avec	ERİ (ML):
Excision de la légion	Tout	Partiel (expliquer)
cervicale:	Y N	
Hémostasa:	Monsel's: Y N	Nitrate d'argent: Y N
<u>Commentaires</u> / complications:		
Instructions post-opératoires données: Y N		
Disposition	Suivi dans 1 an Référez-vous à une gestion plus poussée p	
Signature: Bendez-vous amoureux:		
PATHOLOGIE		
Bionsie		
Pathologiste:	Institution:	
Résultats: Normal CIN1	CIN2 CIN3 AIS AC SCC	
Commentaires:		
Excision de boucle		
Pathologiste:	Institution:	
Résultats:: Normal CIN1	CIN2 CIN3 AIS AC SCC	
Commentaires:		


During the Trip

- Clinical services
 Screening hospital employees
- Training Didactic
 - Lectures
 - Pre/post tests
 - Practice
 - Instruction and supervision of trainees
 - Competency assessments
 - Mobile colposcopy
- Management of clinic flow





Key Supervisory Responsibilities

WEEK 1	Monday			Tuesday			Wednesday			Thursday			Friday			
AM																
Didactics																
Lead trainer	Louise			Louise			Louise			Louise			Louise			
Trainees	10		10			10			10			10				
Trainer 1	Angie			Trina			Anthony			Mai-Linh			Anthony	Carolyn		
Trainer 2	Von	Marc		Von	Marc		Von	Marc	Kimberly	Von	Marc		Von	Erin		
Employee Screer	ning															
Room #	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3	
Employees	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	90
Trainer 1	Anthony	Mai-Linh	Trina	Angie	Anthony	Mai-Linh	Trina	Mai-Linh	Angie	Angie	Anthony	Trina	Angie	Trina	Mai-Linh	
Trainer 2	Kimberly		Kimberly/Erin		Erin			Erin			Kimberly					
Off / Unassigned	Erin							Kimberly								
PM																
Patients Screening	ng															
Room #	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3	
Patients	12	12	12	12	12	12	12	12	12	24	24	24	24	24	24	252
Trainees	3	3	4	3	2	3	3	3	3	2	2	2	2	2	3	
OBGYN	Saintvil	aintvil Petit-Frere Jean-Loui		Jean-Louis Petit-Frere		Petit-Frere Saintvil				Petit-Frere						
Sage-Femmes	Janise	Elmise	Garlinne	Janise	Elmise	Garlinne	Elmise	Garlinne	Janise	Janise		Garlinne	Garlinne	Janise	Elmise	
Infirmiere		Gracieuse	Pascale	Gracieuse		Pascale	Gracieuse		Pascale		Pascale	Gracieuse			Pascale	
MD	Isidore		Benoit		Isidore			Isidore	Benoit	Isidore	Benoit		Benoit		Isidore	
Trainers																
Trainer 1	Angie	Trina	Mai-Linh	Anthony	Trina	Angie	Angie	Mai-Linh	Anthony	Mai-Linh	Anthony	Trina	Mai-Linh	Mai-Linh	Angie	
Trainer 2	Kimberly	Erin/Marc	Louise	Kimberly	Erin	Louise	Louise	Erin	Marc	Louise	Erin	Marc	Louise	Erin	Marc	
Support				Saint-Ville, Benoit			Jean-Louis			Elmise			Gracieuse			
(decontaminatio	Anthony			Mai-Linh			Trina			Angie			Anthony			
n, education,	Markenley			Markenley			Markenley/Carolyn			Markenley/Carolyn			Markenley/Carolyn			
data, mobile	Feda			HAS Educ/Freda			HAS Educ/Freda/Carolyn			HAS Educ/Freda/Carolyn			HAS Educ/Freda/Carolyn			
Colpo/LEEP	-			-			-			Kimberly, Petit-Frere, Saintvil			Kimberly, Jean-Louis, Saintvil			
Supervision/cryo	o -			Marc			Kimberly			Louise/Marc			Louise/Marc			
Off / Unassigned										Jean-Louis	5					

WEEK 2	Monday			Tuesday				Wednesda	у	Thursday		
AM												
Patients Screening												
Room #	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3
Patients	24	24	24	24	24	24	24	24	24	24	24	24
Trainees	4	4	3	4	4	3	4	4	3	4	4	3
Trainer 1	Angie	Anthony	Mai-Linh	Angie	Anthony	Mai-Linh	Angie	Anthony	Mai-Linh	Angie	Anthony	Mai-Linh
Trainer 2	-	-	-	-	-	-	-	-	-	-	-	-
Supervision/cryo	Marc/Ginger				Marc			Marc		Marc/Ginger		
	Trainee	e (1 every 2	2 hours)	Traine	e (1 every 2	2 hours)	Traine	e (1 every 2	2 hours)	Trainee (1 every 2 hours)		
Support												
Support		Carolyn			Carolyn			Carolyn		Carolyn		
		Freda			Freda			Freda		Freda		
Colpo/LEEP				Ginge	r/OBGYN T	rainees	Ginge	r/OBGYN T	rainees			
Off / Unassigned												
PM	PM											
Patients Screening												
Room #	#1	#2	#3	#1	#2	#3	#1	#2	#3	#1	#2	#3
Patients	24	24	24	24	24	24	24	24	24	24	24	24
Trainees	4	4	3	4	4	3	4	4	3	4	4	3
Trainer 1	Anthony	Mai-Linh	Angie	Anthony	Mai-Linh	Angie	Anthony	Mai-Linh	Angie	Anthony	Mai-Linh	Angie
Trainer 2	-	-	-	-	-	-	-	-	-	-	-	-
Supervision/cryo	Marc/Ginger				Marc/Ginge	er	Marc/Ginger			Marc/Ginger		
	Trainee (1 every 2 hours)			Traine	e (1 every 2	2 hours)	Trainee (1 every 2 hours)			Trainee (1 every 2 hours)		
Support	-				-		-			-		
Support	Carolyn				Carolyn		Carolyn			Carolyn		
	Freda			Freda			Freda			Freda		
Colpo/LEEP												
Off / Unassigned												



Learners as Trainers



During the Trip

- Supervision of decontamination process
- Daily set up & cleaning of exam room stations
- Management of supplies & inventory





During the Trip

 Data collection and management Verifying completion of patient clinical intake form Tracking abnormal results & return appointments Updating patient registration forms Handling specimens Data entry



Data Management











Inventory Management



Learning From Other Professionals











After the Trip

- Data analysis
- Trip report
- Local dissemination Newsletters Presentations
- Conference presentations

Reflections

- Participating in a global health experience helps residents to put into perspective the resources that are taken for granted in training programs.
- Residents can also recognize the importance and significance of their clinical work in global service compared to the routine of daily resident life.

Global Health Areas of Practice



Lessons Learned

More formal pre-trip training related to site

- Cultural awareness and sensitivity
- Local epidemiology and pathology
- Other specific data related to site and country

More formal debriefing

More faculty and residents time for preparation and follow-up

Global Health Education in Residency



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• Pathology variety, advance

- Adapt to limited resources Need for public health
- similar pathology Learn about health



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-Medical care -Procedures skills -Disease prevention & health promotion

-Cross-cultural sensitivity -Versatility & Adaptability -Accountability

-To other health professionals

Residents Activities Supporting Core Competencies



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Performing screeningsProcedures skillsDisease prevention & health promotion

-Cross-cultural sensitivity -Versatility & Adaptability -Accountability

Interdisciplinary team Giving lectures Presentations about project Language/cultural barriers

Barriers

Residency program support for global health projects

- -No resident salary support from CMS
 - Residents used vacation time to be able to attend the program.
- -Requirement of 40 weeks of continuity clinic in 1 academic year (ABFM)
- -Lack of rotation schedule flexibility & dedicated time to work on the project
- -Global health experience not formally part of residency curriculum
- -No established global health education

Residents' interest/commitment/motivation

- -Changing availability, priorities, adaptability
- -Risk of engaging in medical tourism
- -Limited global health education background

Barriers

Limited funding for

-Project expenses:

- Salary: resident & faculty
- Trip expenses: travel, lodging, food, insurance
- Supplies, equipment
- -Limited experience in accessing potential sources
 - Grants
 - Donations
 - Fundraising
 - Consulting

Variety of Global Health Jobs Available



Education & training local clinicians

Interval Follow-up on Progress

Partnership with local institution

> Successful short term mission trip

Conclusions

 Involving residents and students in a global health initiative contributes to its success and to their own educational experience

 Medical education programs would benefit from supporting global health experiences

 Short term medical missions although controversial may bring significant resources and lasting positive changes when carefully done

Questions?

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