#### CUGH & NCI Cervical Cancer Webinar 3: Ensuring effective implementation of cervical cancer prevention and control strategies

August 12, 2020

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Silvina Arrossi, PhD Centro de Estudios de Estado Sociedad Buenos Aires, Argentina



Gina Ogilvie, MD MSc FCFP DrPH Canada Research Chair in Global Control of HPV-Related Disease and Cancer, Senior Public Health Scientist, School of Population and Public Health The University of British Columbia



Karla Alfaro, MD, MPH Medical Director Basic Health International San Salvador, El Salvador

#### **Co-Moderator**



Anne F. Rositch, MSPH, PhD, Associate Professor, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health; Baltimore, MD, U.S.A.





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NCIGlobalHealth@mail.nih.gov @NCIGlobalHealth www.cancer.gov/aboutnci/organization/cgh

#### **Co-Moderator**



Isaac F. Adewole, MD, Professor, Obstetrics and Gynaecology University of Ibadan, Nigeria

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# CUGH & NCI Cervical Cancer

<u>The role of Implementation Science to bridge the gap between research and practice in</u> <u>the implementation of HPV-testing as primary screening in middle income settings</u>

### Silvina Arrossi, Msc, PhD CEDES/CONICET

Declaration of Good Standing and Conflict of Interest Disclosure

I do not have a financial interest in any product or service related to my presentation



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THE BURDEN OF CERVICAL CANCER

### TECHNOLOGY

HPV-testing HPV-self collection HPVvaccination

Cervical cancer elimination THE BURDEN OF CERVICAL CANCER

## TECHNOLOGY

HPV-testing HPV-self collection HPVvaccination

Cervical cancer elimination

# HOW TO IMPLEMENT EVIDENCE-BASED INTERVENTIONS IN REAL WORLD SETTINGS SO WE CAN MAKE THEM WORK?





SOURCE: WHO, 2007

# HOW TO IMPLEMENT EVIDENCE-BASED INTERVENTIONS IN REAL WORLD SETTINGS SO WE CAN MAKE THEM WORK?





POLICY CONTEXT



Adapted from Chambers, Proctor, D. TIDIRH 2014

		OUTCOMES	WHO	
WHAT HPV-testing HPV-self collection HPV- vaccination	HOW Implementation strategies	Reach Feasibility Aceptability Adoption	Health services Providers Funders Decision-makers Women Patients	
		Cost Uptake Fidelity Scaling-up Barriers Facilitators Equity		

Adapted from Chambers, Proctor, D. TIDIRH 2014

Incidence

Mortality



Adapted from Chambers, Proctor, D. TIDIRH 2014

## HPV SELF-COLLECTION

# Highly effective to detect disease

Acceptable

High potential to reduce barriers to screening

### **ARGENTINEAN CONTEXT**

- The offer of HPV self-collection: Where, by whom?
- Is it acceptable?
- Is it effective to increase screening uptake?
- What are its core components?
- What are the method main limitations in the local context?





#### CONOCIMIENTO PARA LA SALUD DE LAS MUJERES

200 CHWs who routinely visited households for health service provision









## **EMA STUDY: MAIN RESULTS**

High acceptability by women, by CHWs and health providers



4 times more screened women in the intervention group than in the control group (86% vs 20%)



Arrossi et al, The Lancet Global Health 2015, Curotto et al, 2017; Arrossi et al, BMC Public Health 2016

# Self-collection strategy: Core components



Is the intervention (EMA STRATEGY) being delivered as intended by the program developers and in line with the program model?



Background: Sel collection has been processed as a strategy to increase cervical screening coverage among hard-to reach women. However, evaluations of the implementation of this strategy on a large scale are scarce. This paper describes the process and measurement of the scaling up of self-collection offered by community health

# HOW TO SCALE-UP HPV SELF-COLLECTION IN PROGRAMMATIC CONTEXTS?

- Do primary health workers accept to incorporate it as routine practice?
- Is it effective to reach the target population?
- What are the main limitations when applied at scale?
- What is the level of fidelity in the core components implementation?

# **IMPLEMENTATION SCIENCE APPLIED TO SELF-COLLECTION**



## Evaluation of provincial scaling up

≻N= 3000 women



**Reach:** 10 % of screening in target population

Effectiveness to increase coverage: 40% increase in screening uptake in target population

**Adoption:** 70% of CHWs offered Self-collection;

#### Implementation:

Training: 82%; Discarded samples: 0.2% 70% triage; 70% DX; Tx: 82% CIN2+: 0,9% (EMA: 1,1%)

**Maitenance:** SC routine practice from 2014 onwards

Arrossi et al, Implementation Science 2017, Curotto et al, SPM 2019

### FIDELITY STUDY IN LA MATANZA, BUENOS AIRES METROPOLITAN AREA

Self-collection introduced in 2017

Urban municipality with 2 million inhabitants

More than 30% of its population is poor, high insecurity





### FIDELITY STUDY IN LA MATANZA, BUENOS AIRES METROPOLITAN AREA

How far the implemented intervention actually adhered to the prescribed model (EMA strategy/core components)?

### **METHODS**

Observations of health promoters during the offering of self collection (n=70)

Evaluation of training (n=171)

Analysis of screening registries (clinical outcomes, follow-up, treatment)







### Fidelity Study in La Matanza, Buenos Aires Metropolitan Area



19

Preliminary results, please do not quote

### IMPLEMENTATION SCIENCE TO IMPROVE EFFECTIVENSS OF THE FOLLOW-UP PROCESS



## MIXED-METHODS EVALUATION OF A MULTI-COMPONENT MHEALTH INTERVENTION FOR TRIAGE AFTER HPV SELF-COLLECTION: THE ATICA STUDY

(APPLICATION OF COMMUNICATION AND INFORMATION TECHNOLOGIES TO SELF-COLLECTION, FOR ITS INITIALS IN SPANISH)

- Formative research to design messages: What should be said?, key messages
- Pragmatic Randomized controlled trial: Is it effective in real world conditions?

Evaluation of implementation: decisors, CHWs, women

Arrossi et al, Implementation Science 2017



# ATICA PRELIMINARY RESULTS: 5351 participating women

- Women accept messages; for them they represent the close link with CHWs (Sanchez-Antelo et al, 2019)
- CHWS consider messages as a facilitator of their work and link with women (preliminary results)
- Women who received SMS were more likely to be triaged (19% difference; preliminary results)















A road map guided by Implementation Science

mHealth methods are effective to communicate with women with reduced access to health, they increase follow-up; they are accepted by women.

adjustment of script and dynamic of offer.

When scaled-up effectiveness and

acceptability is maintained.

Adaptation of key components;

Adherence to triage and follow up is major drawback with impact in detection of disease.

HPV-self collection is accepted by women and providers; it is effective to increase screening

uptake.



### ACKNOWLEDGEMENTS

Ministerio de Salud de Argentina, for its participation in the EMA study Instituto Nacional del Cancer, Argentina, for its participation in the EMA study/ATICA project/Fidelity study Ministerio de Salud de Jujuy, for its participation in the EMA study/ATICA Project IARC-WHO, for its participation in the EMA Study Secretaria de Salud de la Matanza, for its participation in the Fidelity Study Harvard University, for its participation in the ATICA Project Deakin University Australia, for its participation in the ATICA project NCI/NIH for its funding of the ATICA Project



Designing research to guide program implementation: The ASPIRE Program



Advances in Screening and Prevention in Reproductive Cancers

### CUGH Webinar Series: August 2020















Global Control of HPV Related Diseases and Cancer

## The ASPIRE program of research

- Partnership between UBC, Makerere University and Uganda Cancer Institute since 2006
- Focused on cervical cancer elimination
- Ongoing consultation with MoH and health care leaders developing National strategy for cervical cancer elimination
- Phased pragmatic research approach to designing cervical cancer screening program

















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# Designing a research program with an implementation focus

- 1) Always keep end goal of national scale-up in mind
- Authentic, established partnerships are critical to a pragmatic in trial design
- Responsive to input from partners and stakeholders including patients and health system leaders.
- 4) Plan trial as program implementation logic model development; consider the entire cascade

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 Develop process evaluation strategy using a Implementation Science framework (we used the Reach, Effectiveness, Adoption, Implementation, Maintenance (RE-AIM) framework)













Assessing women's willingness to collect their own cervical samples for HPV testing as part of the ASPIRE cervical cancer screening project in Uganda

Sheona Mitchell <sup>a</sup>, Gina Ogilvie <sup>a,b,\*</sup>, Malcolm Steinberg <sup>b,c</sup>, Musa Sekikubo <sup>d</sup>, Christine Biryabarema <sup>d</sup>, Deborah Money <sup>a,e</sup>

\* University of British Columbia, Vancouver, Canada

- <sup>b</sup> British Calumbia Center for Disease Control, Vancouver, Canada
- <sup>c</sup> Simon Fraser University, Vancouver, Canada
- <sup>d</sup> Makerere University, Kampala, Uganda
- <sup>6</sup> British Columbia Women's Hospital, Vancouver, Canada

Understanding the role of embarrassment in gynaecological screening: a qualitative study from the ASPIRE cervical cancer screening project in Uganda

Flora F Teng,<sup>1</sup> Sheona M Mitchell,<sup>1</sup> Musa Sekikubo,<sup>2</sup> Christine Biryabarema,<sup>2</sup> Josaphat K Byamugisha,<sup>2</sup> Malcolm Steinberg,<sup>3,4</sup> Deborah M Money,<sup>1,5</sup> Gina S Ogilvie<sup>1,3</sup>

#### Understanding Men's Perceptions of Human Papillomavirus and Cervical Cancer Screening in Kampala, Uganda

Erin Moses <sup>1</sup>, Heather N Pedersen <sup>1</sup>, Emily C Wagner <sup>1</sup>, Musa Sekikubo <sup>1</sup>, Deborah M Money <sup>1</sup>, Gina S Ogilvie <sup>1</sup>, Sheona M Mitchell-Foster <sup>1</sup>















## Results of a community-based cervical cancer screening pilot project using human papillomavirus self-sampling in Kampala, Uganda

Gina S. Ogilvie <sup>a,\*</sup>, Sheona Mitchell <sup>b</sup>, Musa Sekikubo <sup>c</sup>, Christine Biryabarema <sup>c</sup>, Josaphat Byamugisha <sup>c</sup>, Jose Jeronimo <sup>d</sup>, Dianne Miller <sup>b</sup>, Malcolm Steinberg <sup>e</sup>, Deborah M. Money <sup>b</sup>

<sup>a</sup> Department of Family Practice, University of British Columbia, Vancouver, Canada

<sup>b</sup> Department of Obstetrics and Gynecology, University of British Columbia, Vancouver, Canada

- <sup>c</sup> Department of Obstetrics and Gynecology, Makerere University, Kampala, Uganda
- <sup>d</sup> Program for Appropriate Technology in Health, Seattle, USA
- <sup>e</sup> Faculty of Health Sciences, Simon Fraser University, Vancouver, Canada

Self-collection based HPV testing for cervical cancer screening among women living with HIV in Uganda: a descriptive analysis of knowledge, intentions to screen and factors associated with HPV positivity

Sheona M Mitchell <sup>1</sup>, Heather N Pedersen <sup>1</sup>, Evelyn Eng Stime <sup>1</sup>, Musa Sekikubo <sup>2</sup>, Erin Moses <sup>3</sup>, David Mwesigwa <sup>4</sup>, Christine Biryabarema <sup>2</sup>, Jan Christilaw <sup>5</sup>, Josaphat K Byamugisha <sup>2</sup>, Deborah M Money <sup>3</sup>, Gina S Ogilvie <sup>6</sup> <sup>7</sup> <sup>B</sup>

Uptake of community-based, self-collected HPV testing vs. visual inspection with acetic acid for cervical cancer screening in Kampala, Uganda: preliminary results of a randomised controlled trial

Erin Moses <sup>1</sup>, Heather N Pedersen <sup>2</sup>, Sheona M Mitchell <sup>2</sup>, Musa Sekikubo <sup>3</sup>, David Mwesigwa <sup>4</sup>, Joel Singer <sup>2</sup>, Christine Biryabarema <sup>3</sup>, Josaphat K Byamugisha <sup>3</sup>, Deborah M Money <sup>1 2</sup>, Gina S – Ogilvie <sup>1 2</sup>















Community-based HPV self-collection versus visual inspection with acetic acid in Uganda: a cost-effectiveness analysis of the ASPIRE trial

Alex K Mezei,<sup>1</sup> Heather N Pedersen,<sup>2</sup> Stephen Sy,<sup>3</sup> Catherine Regan,<sup>3</sup> Sheona M Mitchell-Foster,<sup>4</sup> Josaphat Byamugisha,<sup>5,6</sup> Musa Sekikubo,<sup>5,6</sup> Heather Armstrong,<sup>1</sup> Angeli Rawat,<sup>2</sup> Joel Singer,<sup>7,8</sup> Gina S Ogilvie,<sup>2</sup> Jane J Kim,<sup>3</sup> Nicole G Campos<sup>3</sup>

#### Cost-effectiveness of cervical cancer screening methods in low- and middle-income countries: A systematic review

Alex K Mezei <sup>1</sup>, Heather L Armstrong <sup>2</sup>, Heather N Pedersen <sup>2</sup>, Nicole G Campos <sup>3</sup>, Sheona M Mitchell <sup>4</sup>, Musa Sekikubo <sup>5</sup>, Josaphat K Byamugisha <sup>5</sup>, Jane J Kim <sup>4</sup>, Stirling Bryan <sup>6</sup>, Gina S Ogilvie <sup>2</sup>

Integrated cervical cancer screening in Mayuge District Uganda (ASPIRE Mayuge): a pragmatic sequential cluster randomized trial protocol



Carolyn Nakisige<sup>1</sup>, Jessica Trawin<sup>2</sup>, Sheona Mitchell-Foster<sup>2,3</sup>, Beth A. Payne<sup>2,4</sup>, Angell Rawat<sup>4</sup>, Nadia Mithani<sup>2</sup>, Cathy Amuge<sup>1</sup>, Heather Pedersen<sup>5</sup>, Jackson Orem<sup>1</sup>, Laurie Smith<sup>2,6</sup> and Gina Ogilvie<sup>2,4,5\*</sup>















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# Considering rural women's and health care providers preferences



### Program Planning – the ASPIRE Trial Logic Model



## What is the ASPIRE Mayuge trial?

- A sequential, pragmatic, two arm cluster randomized clinical trial
- 31 villages randomized in Mayuge District, Eastern Uganda
- Aim is to determine the most effective method of community based cervical cancer screening for women in rural Uganda
- Secondary objectives to determine cost effectiveness and process evaluation following RE-AIM framework
Eligibility: Who can participate in sample self-collection for ASPIRE?

- ✓ women between the ages of 25-49 years old
- ✓ no previous hysterectomy or cervical cancer history
- ✓ who have not previously been treated for cervical cancer







### Build Local Partnerships And Leverage Existing Resources

















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### Adapting to the Agile Nature of the Research Environment and COVID-19

### Key:

 Strong partnerships at community and health system level

#### Example:

- Local partnerships were integral to resumption of research during COVID-19 pandemic
  - Essential updates on local situation and lockdown measures
  - Advocate for resumption with ethics committee
  - Guidance on safety plan development and adjustments to standard operating procedures to meet standards of new research environment
  - Link to both community and health system to ensure plans reflect needs of both and maintain overall research aims















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# Arm 2 process adapted to COVID-19

















# Status update



- Recruitment for Arm 1 complete between August 7, 2019 – December 20, 2019
- 1055 now enrolled and tested
- Ongoing VIA follow-up being monitored
- Resumption of research now approved and Arm 2 expected to start in September















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# Discussion

- Recruitment to Arm 1 exceeded
   expectations in pace
- Community support is high
- HR-HPV is common and dominated by types not impacted by the use of the quadravalent vaccine
- Suggests screening is critical to Ugandan strategy for elimination of cervical cancer

















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# Thank you!



Advances in Screening and Prevention in Reproductive Cancers







Provincial Health Services Authority Province-wide solutions. Better health.



BC Centre for Disease Control Provincial Health Services Authority







# Background

- The World Health Organization has called cervical cancer one of the 'gravest threats to women's lives.'
- Uganda has one of the highest cervical cancer incidence rates in the world (54.8 per 100,000).
- Specific high-risk subtypes of human papillomavirus (HR-HPV) are established as the cause of cervical cancer.

















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### Process Evaluation Strategy Using RE-AIM Framework

Research Objective	Research Question	RE-AIM Outcome	Outcomes	Data Analysis Approach
Primary Objective				
Self-collected cervical	cancer screening effectivene	ess		
To compare the effectiveness of two self-collected CCS models at improving VIA follow-up: community health worker recruitment (door-to-door) versus community health day.	Which of the two self- collected CCS models is more effective at improving VIA follow-up among screened women: door-to- door screening or community health days?	Effectiveness (Individual level)	Primary Outcome: Follow-up attendance for VIA screening at a designated Health Center after a positive HR-HPV test out of all participants screened per arm	Quantitative analysis of clinical data: Mixed effect model with cluster as a random intercept and adjusted for all known confounders. Intention to treat and sensitivity analysis; Multivariate logistic regression
	What is the effect of screening model on CCS knowledge retention and follow-up uptake? Are women aware of cervical cancer and how knowledgeable are they about CCS?	Effectiveness (Individual level)	Mean CCS knowledge scores; cervical cancer awareness;	Quantitative analysis of survey data: multi-level Poisson model;















### WHO Life-course Approach To Cervical Cancer Control









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### Current Evidence for Self-collected HPV Testing as Primary Screening Method For LMICs

Three trials: India; Mexico and South Africa

- Self-collected HR-HPV testing led to higher screening uptake
- 3.4 x higher detection of CIN2+ than Pap
- Higher specificity for CIN2+ than VIA or Pap









Provincial Health Services Authority Province-wide solutions. Better health.



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### *Cervical Cancer Prevention in El Salvador (CAPE): Lessons in developing and implementing a primary HPV <u>screening program in a low-middle</u>-income country*

Karla Alfaro Basic Health International August 12th, 2020



#### **Conflict of Interest**

I have no commercial relationship with any corporate entity that produces or sells products related to HPV testing.



#### **Presentation outline**

- State of cervical cancer control in El Salvador pre-CAPE
- Steps leading to the development of CAPE
- Steps involved in building and delivering a screening program in a limited-resource setting.
- National Scale-up
- Challenges



### Cervical Cancer Control in El Salvador pre-CAPE



#### **Cervical cancer in Latin America**

#### Table 4

Cytological screening coverage in Latin America and the Caribbean

Target population		Women interviewed		Screening		Method of estimation		
Country	Year	Region or city	Number of women	Age (years)	Coverage (%)	Interval (years)		
Argentina	2005	National	NS	>18	51.6	2	Survey	
Belize <sup>a</sup>	1999	National	4,164	13-49	13.4	1	Survey	
	2002-2005	Capital cities	13,282	25-59	63.4	1	Survey	
	2003	National	NS	>24	68.7	3	Survey	
Brazil	2002	National	2,577	18-69	64.8	3	Survey	
	2002	Pelotas	1,198	25-59	68.8	3	Survey	
	2000	Sao Paulo	1,050	15-49	77.3	3	Survey	
	2003	National	27,000	>15	51.4	3	Survey	
	2003	National	-	25-64	66.0	1	SP	
Chile	2000	National	-	25-64	64.0	3	SP	
	2000	Araucania Sur	-	25-64	56.2	3	SP	
Colombia	2005	National	34,674	25-69	50.6	1	Survey	
C	1999-2000	National	1,612	18-44	37.0	1	Survey	
Costa Rica	1991	National	NS	25-58	51.3	1	Survey	
Cuba	1993-1994	National	-	>20	54.2	2	SP	
Dominican Republic	2002	National	1,389	18-69	54.4	3	Survey	
Fcuador		National	10,813		31.0			
	2004	Urban	5,876	15-49	35.6	2	Survey	
12200.00		Rural	4,938	10000	24.9			
	2002	National	10,689	15-49	47.0	1	Survey	
El Salvador	1998	National	-	NS	19.0	3	SP	

R. Murillo et al. / Vaccine 26S (2008) L37-L48



#### **Pre-CAPE: 1-year follow-up after cytology-based screening (2010)**





### Steps leading to CAPE



#### Introduction of HPV-based screening in El Salvador



MOH and BHI partnered to present a proposal for the implementation of a low-cost HPV through a donation program .

Consultants from NCI, PAHO, National OBGYN and Pathology societies were involved in the process.

In 2011 we received the approval to implement HPV as part as a pilot project.



#### **CAPE: Cervical Cancer Prevention in El Salvador**





# Building and delivering a screening program in a limited-resource setting



#### **CAPE Cervical Cancer Prevention in El Salvador**

Three phase project:

Phase 1: 2,000 women (2012-2013)

Phase 2: 8,000 women (2013-2014)

Phase 3: 20,000 women (2015-2017)





#### **Nested Studies**





#### **Cost-Effectiveness Results**

- Screening with a low-cost HPV test provides *greater health benefits* than current Pap smear screening.
- Routine screening with this low-cost HPV test (every 5y) is *cost-effective* compared to Pap testing (every 2y).
- Screening with low cost HPV test followed by visual assessment triage is *more effective and less costly* than low cost HPV test with colposcopy triage



### **Presenting results**







#### Changing the paradigm





#### Sustainable change

#### December 2015

As a result of CAPE, the El Salvador MOH changed its cervical cancer guidelines to include HPV test and the proposed treatment algorithm.









#### **Screening forms**

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#### **Building a Surveillance System in El Salvador**

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#### Indicadores

#### Indicador

Numero de mujeres con pruebas de VPH y PAP realizadas

Numero de mujeres con pruebas de VPH y PAP positivas

Numero de mujeres con pruebas de VPH positivas que asistieron a evaluacion visual

Numero de mujeres con pruebas de VPH positivas que fueron elegibles para crioterapias

Numero de mujeres con pruebas de VPH positivas que fueron referidas a colposcopia

Numero de mujeres con pruebas de VPH positivas a quienes se les realizo colposcopia

Numero de mujeres con pruebas de PAP positivas a quienes se les realizo colposcopia

Numero de mujeres a quienes se les practico crioterapia despues de evaluacion colposcopica

Numero de mujeres con biopsia cervico uterinas positivas

Numero de mujeres a quienes se les practico cono leep



### **Training sessions**







#### Visual assessment triage and cryotherapy









### National scale-up December 2018


# **Expectations**







# Reality





### Total of health personnel trained 2012-2020

Health Personnel	Total
Health Promoters	2,655
Nurses	1,230
Doctors	869
Total	4,754



# Total of women screened 2012-2020

Period of time	Total of Screenings
2012-2017 Pilot	29,139
2018-2020(Octubre-Diciembre)	64,690
Total	93,829



Challenges



# -Reluctance by local stakeholders to change cytology-based screening program to HPV testing

-Loss to follow-up increased as program expanded

-Long intervals between program steps

-Advocate for ways to conduct implementation research

#### in limited resource settings **BASED ON YOUR RESEARCH FINDINGS**



### Impact of COVID19 in Cervical Cancer Program

- Health services are focusing to combat the pandemic.
- Occidental and Oriental Region: women pending of treatment
- Delay implementing HPV testing in Central and continuing in Paracentral region
  - 80,000 women schedule to be screened in 2020
  - New possible target to screen 40,000
  - Self Sampling to be added in the national guidelines







# CUGH & NCI Cervical Cancer Webinar 3: Ensuring effective implementation of cervical cancer prevention and control strategies

August 12, 2020

11:00am-12:00pm EDT



Silvina Arrossi, PhD Centro de Estudios de Estado Sociedad Buenos Aires, Argentina



Gina Ogilvie, MD MSc FCFP DrPH Canada Research Chair in Global Control of HPV-Related Disease and Cancer, Senior Public Health Scientist, School of Population and Public Health The University of British Columbia



Karla Alfaro, MD, MPH Medical Director Basic Health International San Salvador, El Salvador

#### **Co-Moderator**



Anne F. Rositch, MSPH, PhD, Associate Professor, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health; Baltimore, MD, U.S.A.





#### info@cugh.org @CUGHnews

@CUGH\_TAC www.cugh.org

NCIGlobalHealth@mail.nih.gov @NCIGlobalHealth www.cancer.gov/aboutnci/organization/cgh

#### **Co-Moderator**



Isaac F. Adewole, MD, Professor, Obstetrics and Gynaecology University of Ibadan, Nigeria