

HOPE: Improving women's health using molecular self-testing for screening of Human Papilloma Virus (HPV)

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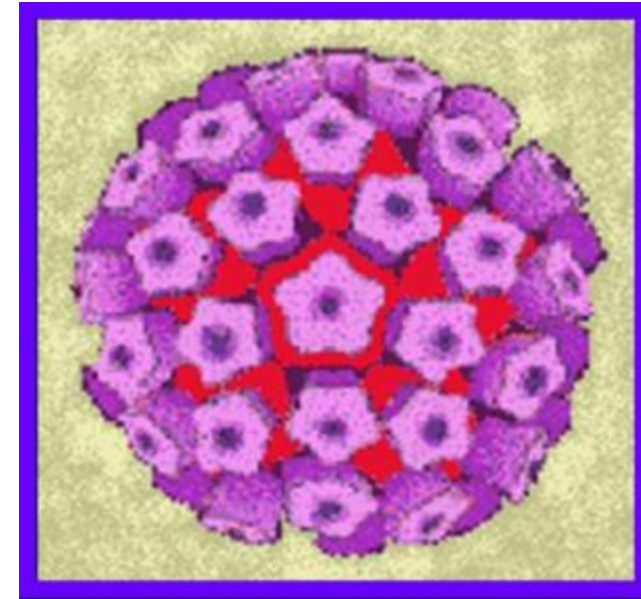


The Facts...

- In the world, cervical cancer is the third most frequent cancer in women.
- The human papilloma virus (HPV) is the cause of cervical cancer.
- In Peru, it is the **number one cancer** affecting women
 - **34.5 / 100,000 women** (higher than the LA avg 24.1)
- Reasons for this high incidence:
 - Frequent HPV infection
 - Only 40.3 % of women have a PAP (**fear, knowledge**)
 - PAP sensitivity to detect cancer is low: 42.5 %

There are new ways of detecting the presence of the virus, which would help us to detect the problem before cancer occurs

- **New molecular tests** to detect the presence of HPV in the vagina / cervix.
 - *CareHPV (quiagen)*
- Could be done by women in the comfort of their homes (self-administered swab)





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Self-testing at home
CARE HPV
(QUIAGEN)



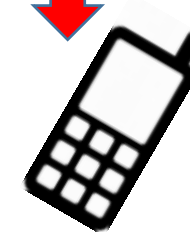
Collection site



Colposcopy
& treatment
according to findings



Processing at Central Lab



Results and reminders
by SMS



If HPV +



Final result:
Healthy women:
early detection, better
prognosis,
empowering women
Social innovation
model



**Women from the community:
Champions! Trained!
Providing information and screening
kits to women at home for self-testing**

New model for Cervical Ca prevention: HOPE

Identifying potential women “champions”



Training for women “champions”

- Two-day workshop
- 59 women trained



Learning about self-collection of samples



How to fill forms and record information



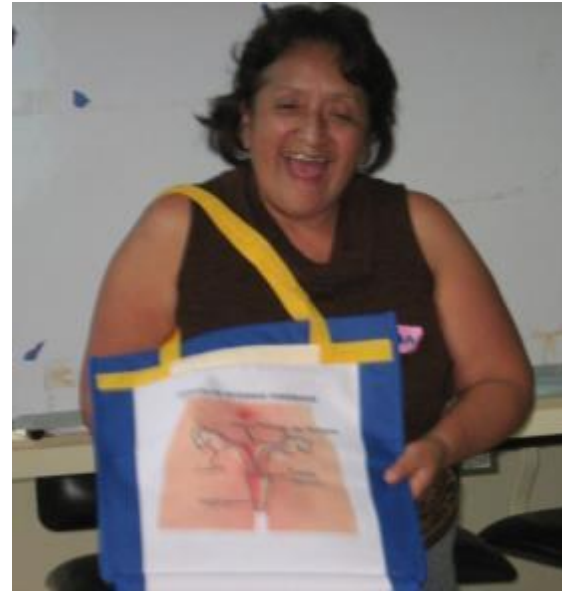
FORMATO DE E

Responsable

FECHA DE VISITA	EDAD (25-59 años)	CRITERIOS			ACEPTA SI/NO
		Es Gestante	Tuvo cáncer de cuello uterino	Histerectomía	
Fecha propio zona 2 MDT2	3/19/15 35	SI/NO	SI/NO	SI/NO	SI
		SI/NO	SI/NO	SI/NO	
		SI/NO	SI/NO	SI/NO	
		SI/NO	SI/NO	SI/NO	



Practicing what they have learned



HOPE Ladies: the champions!!



Pachacútec-Ventanilla

- Bahía Blanca: 18 women
- Perú Corea: 23 women
- Santa Rosa: 18 women

Total 59

Ages : 27-57yo





Collection sites 24/7 hours



Transportation of samples to lab



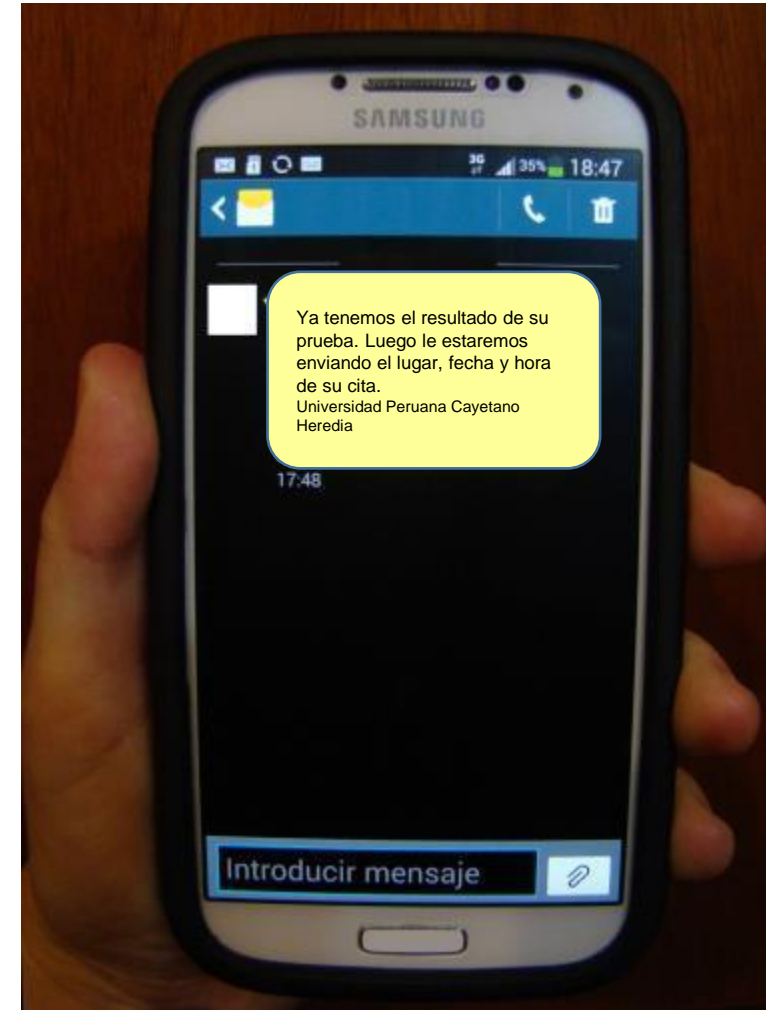
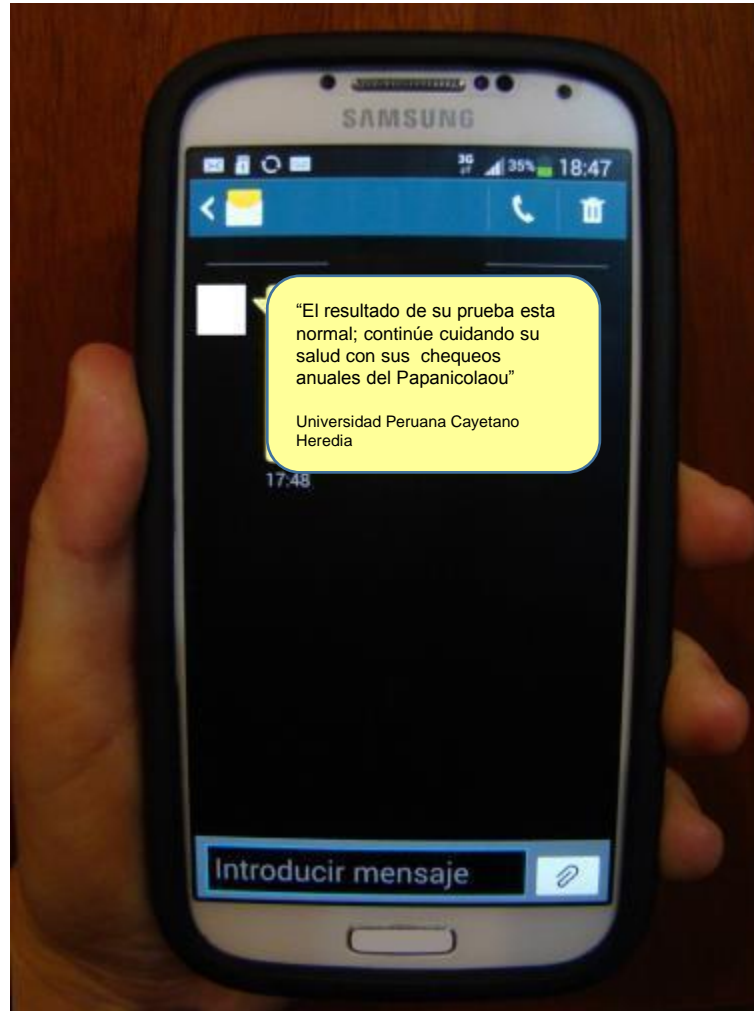
Central District laboratory



**Laboratorio Referencial
DIRESA Callao**



Results, reminders send through SMS



Results

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Number of kits distributed by HOPE Ladies	2217
Number of kits (envelopes and samples) found in the “collection sites”	2131 (96.1%)
Number of positive HPV tests	266 (12.5%)
Number of HPV (+) who signed consent for colposcopy, PAP and biopsy	252 (94.7%)
Abnormal Biopsies (High grade, Cancer)	49/412 (11.9%)

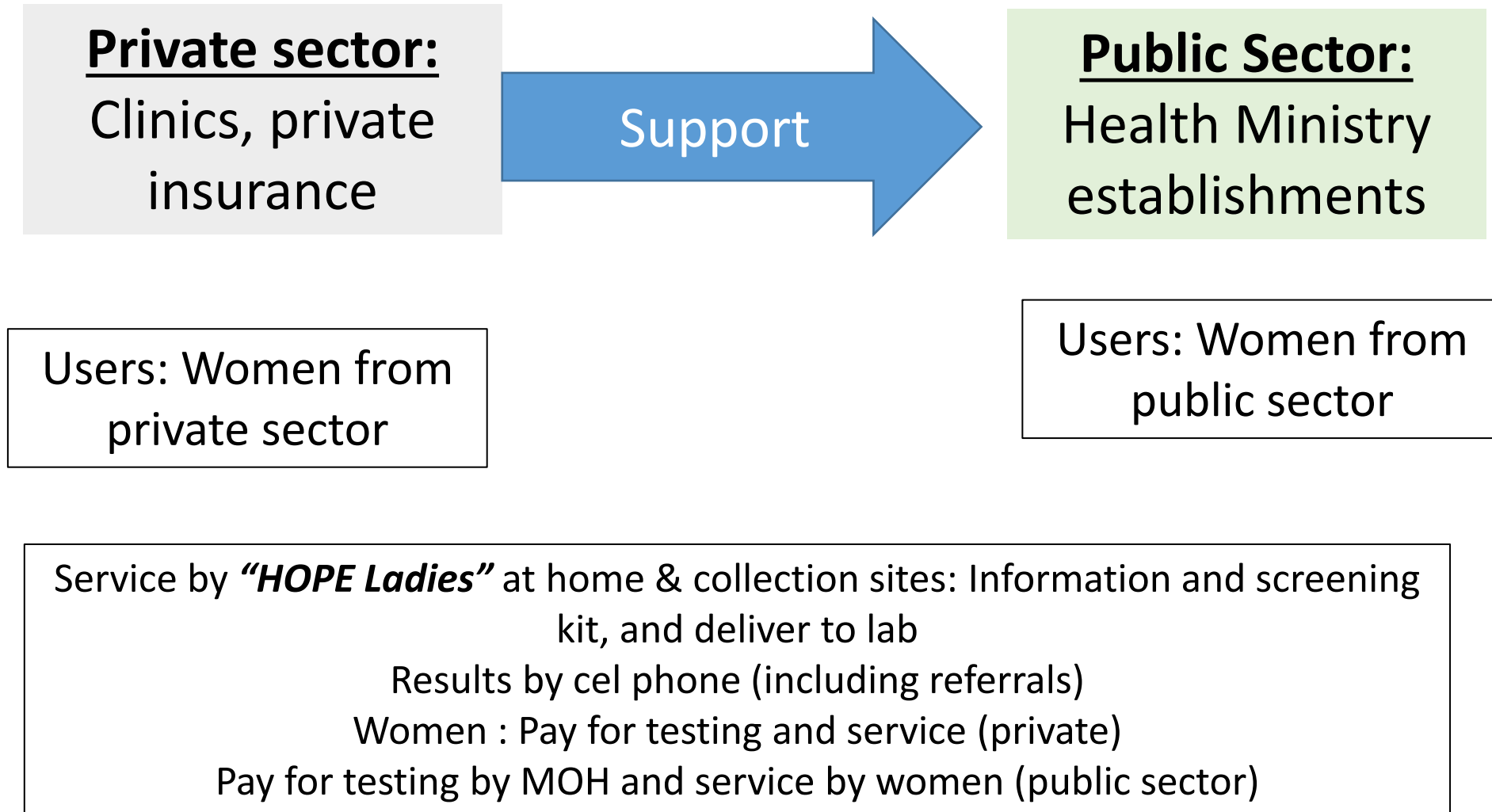
Learning Points

- From more than 2100 women screened, 2/3 never had PAPs before (HPV+:12.5%): improve coverage
- Women love self-testing!
- Collection sites open 24/7 critical
- Technology is appreciated
 - New tests!
 - Getting results by SMS messages!
- New National Guidelines in Peru include for cervical cancer screening the use of HPV molecular testing and self-testing
 - New Plan for the Control of Cervical Cancer
 - Has started in the north of Peru: Tumbes

Conclusions

- New technologies like HPV molecular testing (and self-testing) and use of cel phones can improve Cervical Cancer control
- The “*HOPE ladies*” (women health promoters-leaders) are incredible powerful to reach women (and families) that otherwise may not show to a health center.
 - Other issues could be addressed, other technologies could be introduced!
- There is a need of scaling up the model
 - Through the MOH (plan ready, Budget ready, now political will!)
 - New model for social business with GCC (looking for angel investors)
 - Buy one test, help one rural woman to have the test and say goodbye to cervical cancer...
 - Incentives for HOPE ladies, training on other issues e.g. HPV vaccine etc.

Social Business Model



Gracias... Thank you!



Acknowledgments



CIENCIACTIVA

- Concytec
- DIRESA CALLAO
- Grand Challenges Canada