



PhD Project Ethiopia: Progress Report

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Eshetu L Haile

MOLECULAR EPIDEMIOLOGY AND GENETIC VARIABILITY OF HUMAN PAPILLOMAVIRUS (HPV) IN ETHIOPIA: EVALUATION OF CERVICAL CANCER SCREENING PROGRAMME AND SPECIMEN COLLECTION TECHNIQUES

Promoters

Prof JP Bogers ,Prof. Jeffery Mphahlele, Dr.Gurja Belay

Outlines

- Project Objective
- Project activities
- Success
- Project expenses
- Challenges
- Way forwards

OBJECTIVE

Specific objective

- To assess the clinical performance of HPV DNA test of self-collected specimen versus doctors-collected specimens of women older than 21 years at St. Aklesia Memorial Hospital in Adama city, Ethiopia.
- To determine the molecular epidemiology of HPV using urine samples of unvaccinated women older than 21 years at St. Aklesia Memorial Hospital in Adama city, Ethiopia.
- To compare the clinical performance of VIA, VILI, Pap and HPV DNA test of women older than 21 years at St. Aklesia Memorial Hospital in Adama city, Ethiopia.
- To investigate the genetic variability of HPV-16 and HPV-18 L1 and L2 genes of identified in this study.

Project activities

- CCS awareness creation at community level has been done and continued.
- The cervical cancer screening centre established & opened officially with help of IPRH, SAMH and AAU.
- **VIA/LIVA** started , PAP smear, biopsy
- The cervical cancer diagnosis & treatment equipments (**copolscopy, LEEP, cryotherapy**) is installed and currently in use.
- The centre is fully functional since October 3 2015.
- Used the Pathfinder international registry standard form.



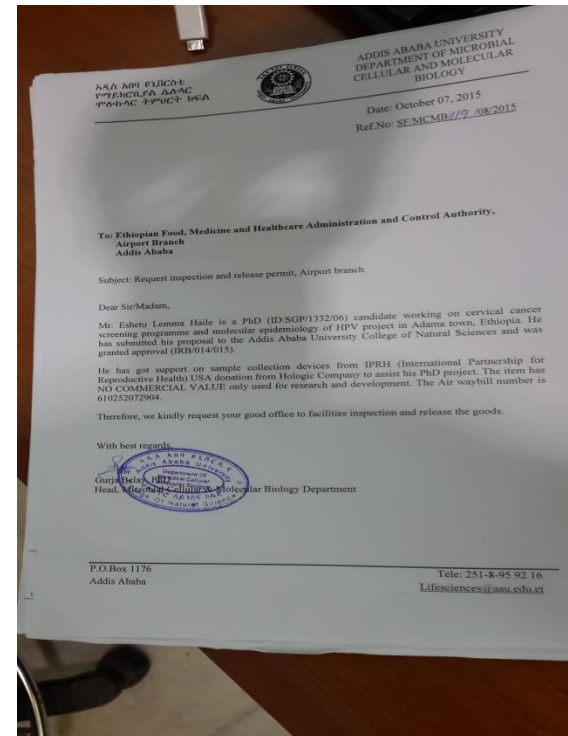
Cont`d

- Training were giving for nurses, doctors, researcher, lab staffs,
- Both theoretical and practical lessons delivered
- Offices equipment and furniture's were purchased.



Cont`d

- More than 145 cases were registered during **IPRH weeks** and 85 women cases were seen and examined.
- A total of 30 women with 60 (doctors and self) samples taken during **IPRH weeks**.
- An extra 10 women were seen, and 8 samples were collected (self and doctor).
- In total 68 samples are collected.
- Samples stored at RT (waiting for cytology and mol. analysis)



Cont`d

- In addition to existing hospital staffs, one senior nurse is hired and responsible for mentoring the activities of cervical cancer screening centre
- New offices equipment and furniture's were purchased



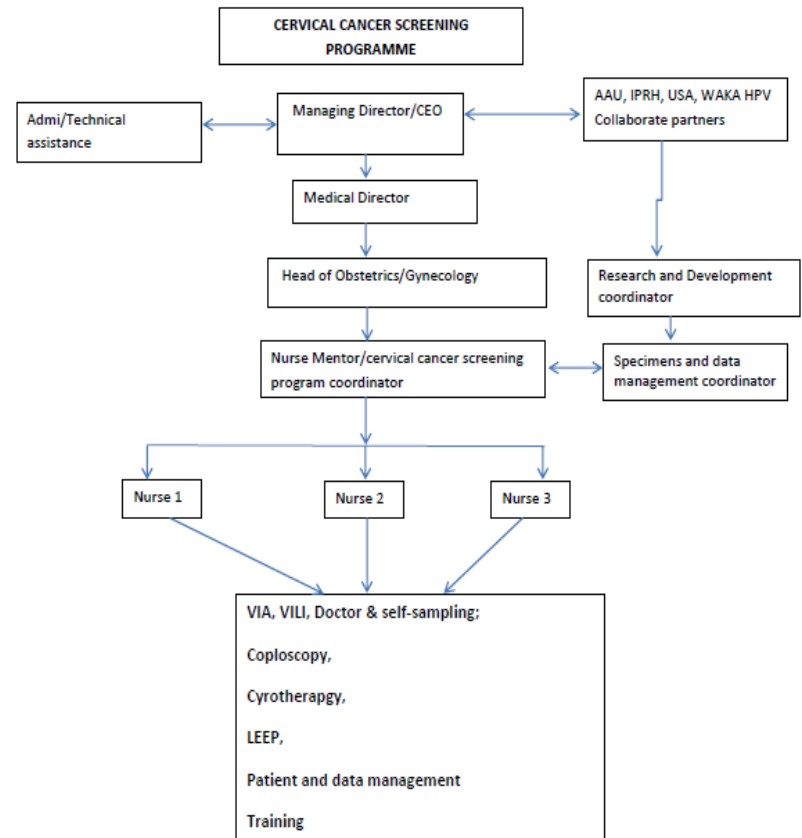
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- 500 Thinpre Preservecyt cervical cancer collection donated by **IPRH** through Hologic company.
- Store at RT (2-30c).
- Currently coordinated screening program is going on.



Success

- Cervical cancer screening centre setup completed .
- Samples collection started according to pre-defined criteria's.
- Started good communication with IPRH USA for further support
- Database is being capture using Epi info software (Developed).
- Collaborative case management with Marraystop international clinic setup.
- CCSC Organgram defined



Cont`d

- Ongoing good communication with WAKA HPV networking has been established, more expectation (*particularly cytology and mol. analysis, etc*).
- WAKA HPV network create Symposium for PhD student: update and progress of HPV issues in the region.

WAKA HPV Africa

Project expense

- Thinpre Preservcyt **kits & shipment**: : **\$3258/Support from IPRH & Hologic company.**
- Awareness, promotion, media, campaign, questionnaires, leaflet, brochures, transportation cost; etc: **\$930birr/support from AAU.**
- Kits custom clearance: **\$400/** out of the pocket
- Assign a hospital staff for overall coordination and nurse for data collection since October: **\$45/month/** out of the pocket
- **SAMH** : all the rest expense related to CCS programme was covered by hospital.

Challenges

- Financial problems!! (*for molecular analysis, cytology, samples shipment and others activities*).
- Urine collection device not available until now... *need support?*.

Way forward

- Continue collecting more samples.
- Plan to make additional CCS campaniles.
- Educate and involve more women to visit CCC.
- Need support for urine collection devices.
- Liquid cytology : cytology and molecular analysis will be done at SA.
- Financial support from WAKA HPV Network.
- Initiate the process of specimen import permits from South Africa.
- Identify the need advance molecular training and courses

Thank you all!

